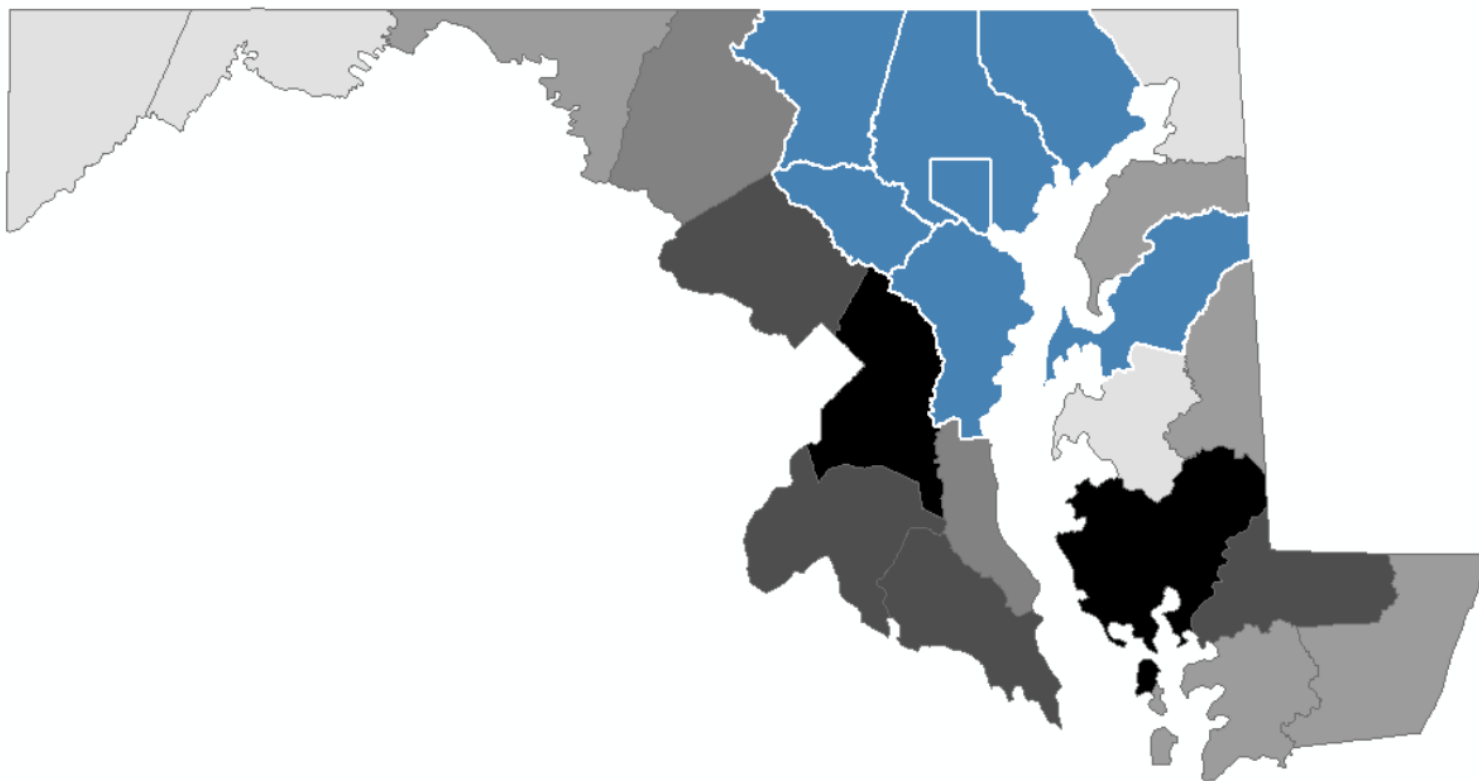


2016



Baltimore Metro HIV Annual Epidemiological Profile

Data reported through June 30, 2017

Center for HIV Surveillance, Epidemiology and Evaluation
Infectious Disease Prevention and Health Services Bureau
Prevention and Health Promotion Administration
Maryland Department of Health
<http://phpa.health.maryland.gov/OIDEOR/CHSE>
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Section I – Background Information

HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the Maryland Department of Health by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the Maryland Department of Health to establish electronic reporting.
- Laboratory directors are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland Department of Health, by mailing the State of Maryland HIV/CD4 Laboratory Reporting Form (DHMH 4492). Laboratories are encouraged to contact the Maryland Department of Health to establish electronic reporting.

Reporting forms and instructions, including mailing addresses and phones numbers, are available on our website: <https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx>

For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Maryland Department of Health, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of 12/31/2016. Nationally, it has been estimated that 15.0% of people living with HIV infection are undiagnosed. In Maryland, it has been estimated that 15.3% of people living with HIV infection are undiagnosed. In addition, despite a massive effort during which over 17,000 HIV cases were reported after the Maryland HIV reporting law changed on April 24, 2007, not all diagnosed HIV cases previously reported by Maryland's code-based identifier were located and re-reported by name. Many of the re-reported HIV cases were identified by a recent diagnosis and not by their earliest diagnosis, resulting in an under-reporting of HIV diagnoses before 2001 and an over-reporting of HIV diagnoses from 2001 to 2008. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of case report data. Case report data are only available for cases receiving medical care, often only at facilities in Maryland, and only includes information that has been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department.

This epidemiological profile provides estimates of living Maryland diagnosed cases by current residence as of 12/31/2016. Residence at diagnosis is used exclusively to describe new HIV and AIDS diagnoses. Current residence data are restricted to cases for which there is a case report form or laboratory test reported between 1/1/2009 and 6/30/2017. Restricting address data to recent years presents the most accurate data available and helps to account for cases that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes cases that may still be residents of Maryland but have not received any HIV care during the most recent eight and a half years. In addition, residence is dynamic and cases may have resided at multiple addresses that cannot all be represented in single time point estimates.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Stages of a Case of HIV/AIDS

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

A case of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9], but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV infection [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV infection [time point 1].

Changes in Case Terminology

The terminology for HIV and AIDS cases was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both newly and previously diagnosed cases as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, the reports received through a certain time (six months after December 31st of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a six-month lag, and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the Reported HIV Diagnoses for 2016 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 1/1/2016-12/31/2016, as reported by name through 6/30/2017.

To calculate the number of Living Cases we count up all of the Reported Diagnoses from the beginning of the epidemic (all the new cases each year) and subtract all of the Reported Deaths. For example, the Total Living HIV Cases on 6/30/2017 are the total of the reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of 12/31/2016 as reported by name through 6/30/2017.

Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An HIV infected adult is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ cells is less than 14%. Viral load (VL) tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of VL, such as less than 200 copies per milliliter of blood, are known as viral suppression. Treatment recommendations are that a person in HIV medical care should have their CD4 and VL levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, current gender, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS), June 30, 2017.

Population data by sex, age, and race/ethnicity are from the July 1, 2016 U.S. Census Estimates. Population data by country-of-birth are from the Census Bureau's 2015 American Community Survey. This produces a difference in total population due to the different source. Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

Estimations of those undiagnosed are from Centers for Disease Control and Prevention's 2015 HIV Surveillance Supplemental Report published July 2017. The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- All exposure/risk information if it is describing less than 5 cases, except in the case of "other" exposure.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the

hierarchy and therefore counted only once. Men who have sex with men and report injection drug use constitutes a separate transmission category.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Men who have Sex with Men (MSM): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Perinatal Exposure: Any baby born to an HIV positive mother.

Other Exposure: Includes men or women who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

Not all exposure data is reported and is therefore missing for some cases. Multiple imputation is a statistical method by which missing exposure categories are replaced with estimated or probable exposure categories. Multiple imputation involves filling in the missing exposure category with multiple possible exposures, creating several complete datasets. Filling in the missing exposure category is done using the observed data for the individual case as well as data in aggregate from other cases in Maryland. The complete datasets, containing the various predictions for each missing exposure category, are combined to create a final dataset with previously missing exposure category replaced by weighted estimates.

MDH Non-Discrimination Statement

The Maryland Department of Health (MDH) complies with applicable Federal civil right laws and does not discriminate on the basis of race, color, national origin, age, disability in its health programs and activities.

English

Help is available in your language: 410-767-5227 (TTY: 1-800-735-2258). These services are available for free.

Español/Spanish

Hay ayuda disponible en su idioma: 410-767-5227 (TTY: 1-800-735-2258). Estos servicios están disponibles gratis.

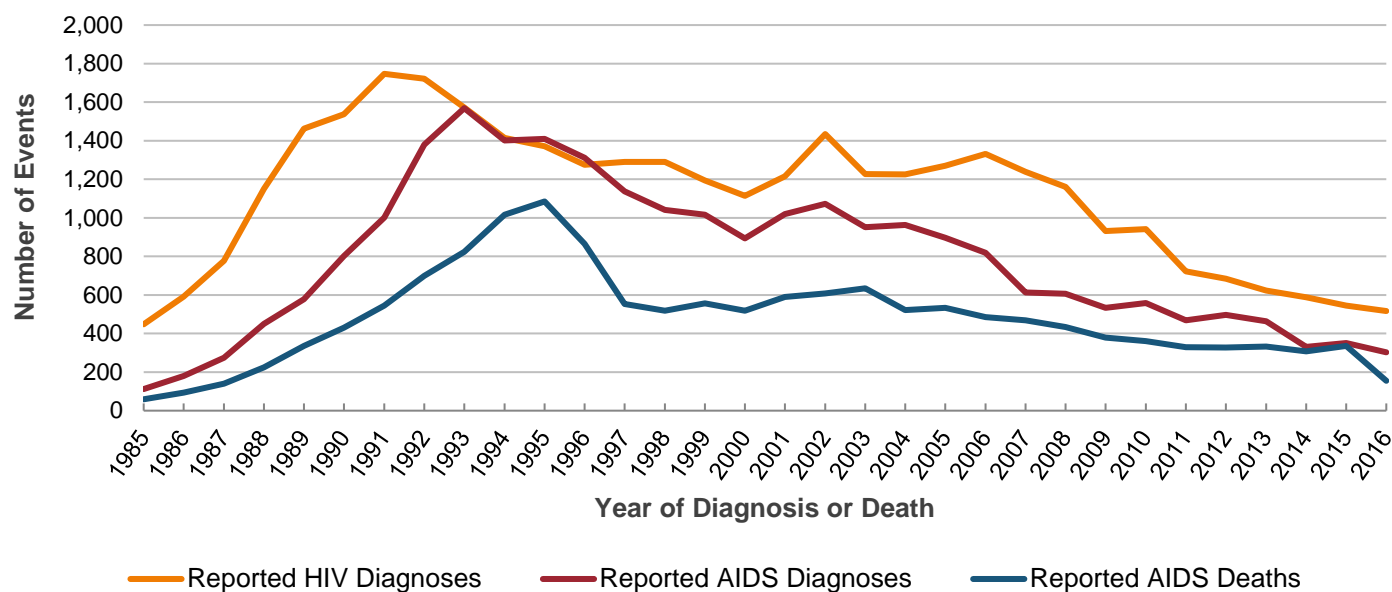
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Section II – Trends 1985-2016

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2016, Reported through 6/30/2017

Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2016 as Reported through 6/30/2017



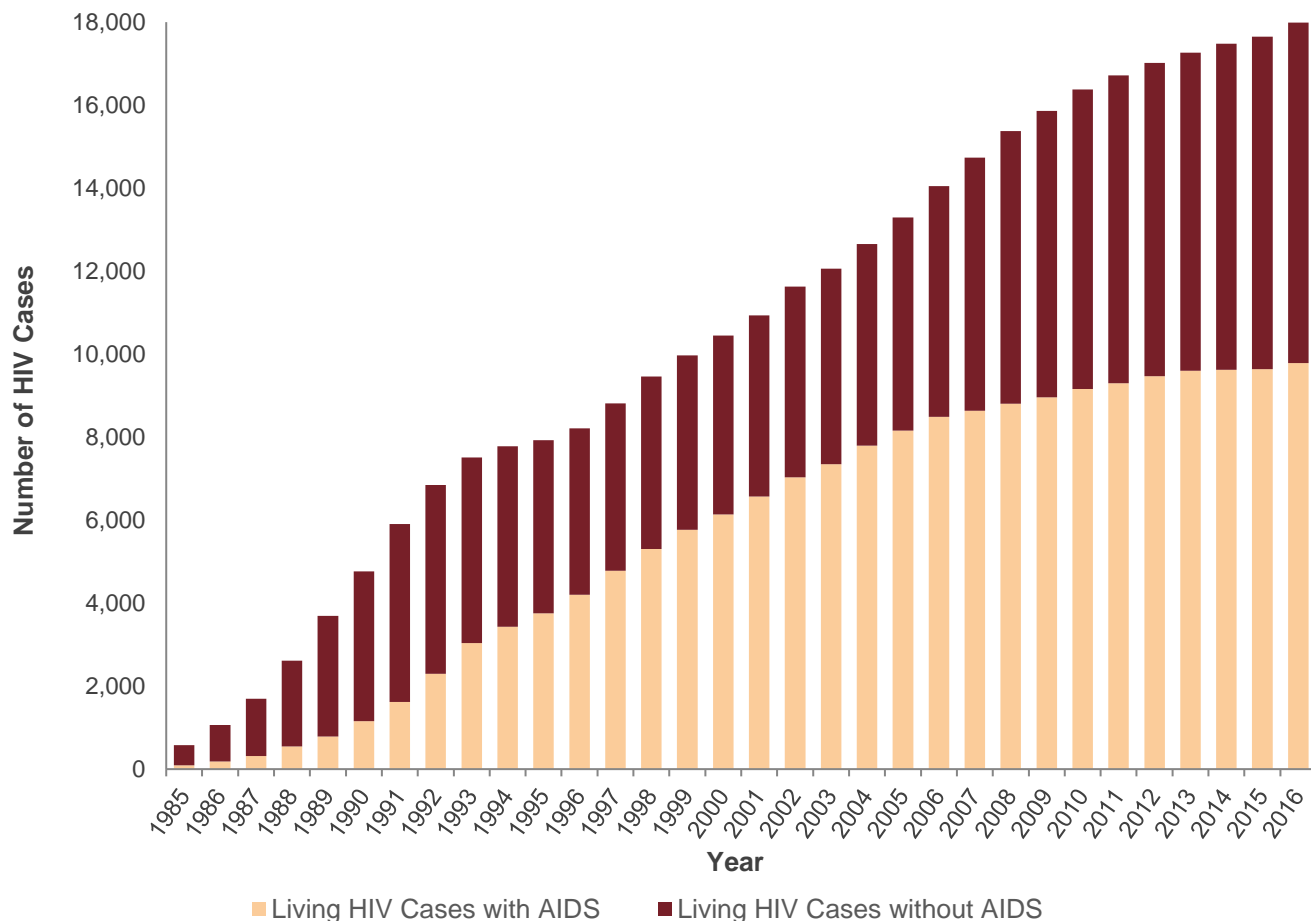
During the 2007-2008 transition to name-based reporting, many HIV cases were reported by a recent HIV diagnosis and not by their earliest HIV diagnosis, resulting in an artificial upward trend in HIV diagnoses during the period 2001-2008.

YEAR OF DIAGNOSIS OR DEATH	REPORTED HIV DIAGNOSES	REPORTED AIDS DIAGNOSES	REPORTED AIDS DEATHS	YEAR OF DIAGNOSIS OR DEATH	REPORTED HIV DIAGNOSES	REPORTED AIDS DIAGNOSES	REPORTED AIDS DEATHS
<1985	227	78	36	2001	1,216	1,019	590
1985	448	112	59	2002	1,435	1,073	608
1986	592	180	94	2003	1,227	952	634
1987	778	275	140	2004	1,225	964	522
1988	1,150	451	224	2005	1,270	896	533
1989	1,463	578	335	2006	1,331	819	485
1990	1,537	803	431	2007	1,238	613	469
1991	1,747	1,002	545	2008	1,160	607	433
1992	1,721	1,379	699	2009	931	534	379
1993	1,572	1,569	824	2010	942	559	361
1994	1,414	1,402	1,016	2011	723	468	329
1995	1,371	1,409	1,085	2012	684	497	327
1996	1,276	1,312	865	2013	623	463	333
1997	1,291	1,137	554	2014	588	330	307
1998	1,291	1,042	519	2015*	545	351	335
1999	1,194	1,016	557	2016*	516	303	155
2000	1,114	894	519	TOTAL	35,840	25,087	15,302

*2015-2016 reported AIDS deaths are preliminary.

Figure 2 – Trends in Living HIV Cases, 1985-2016, Reported through 6/30/2017

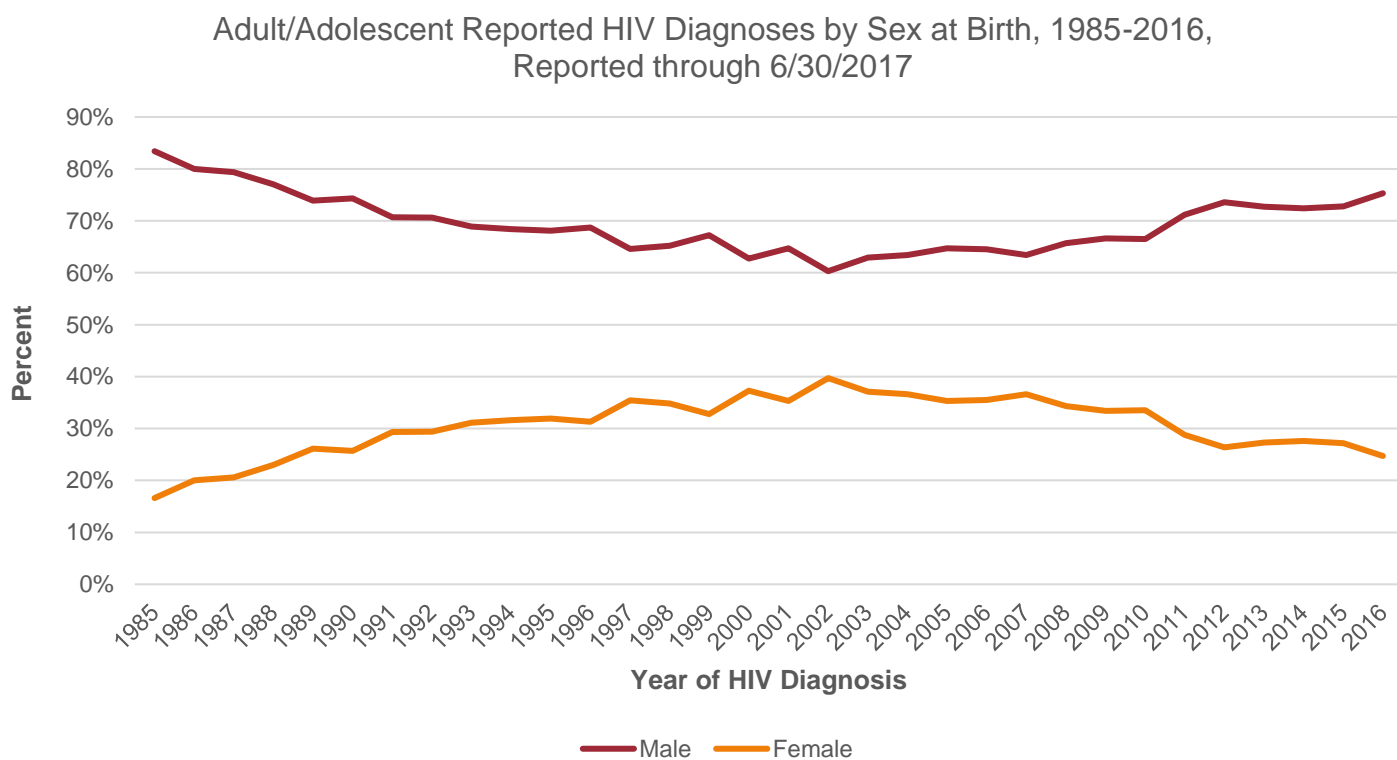
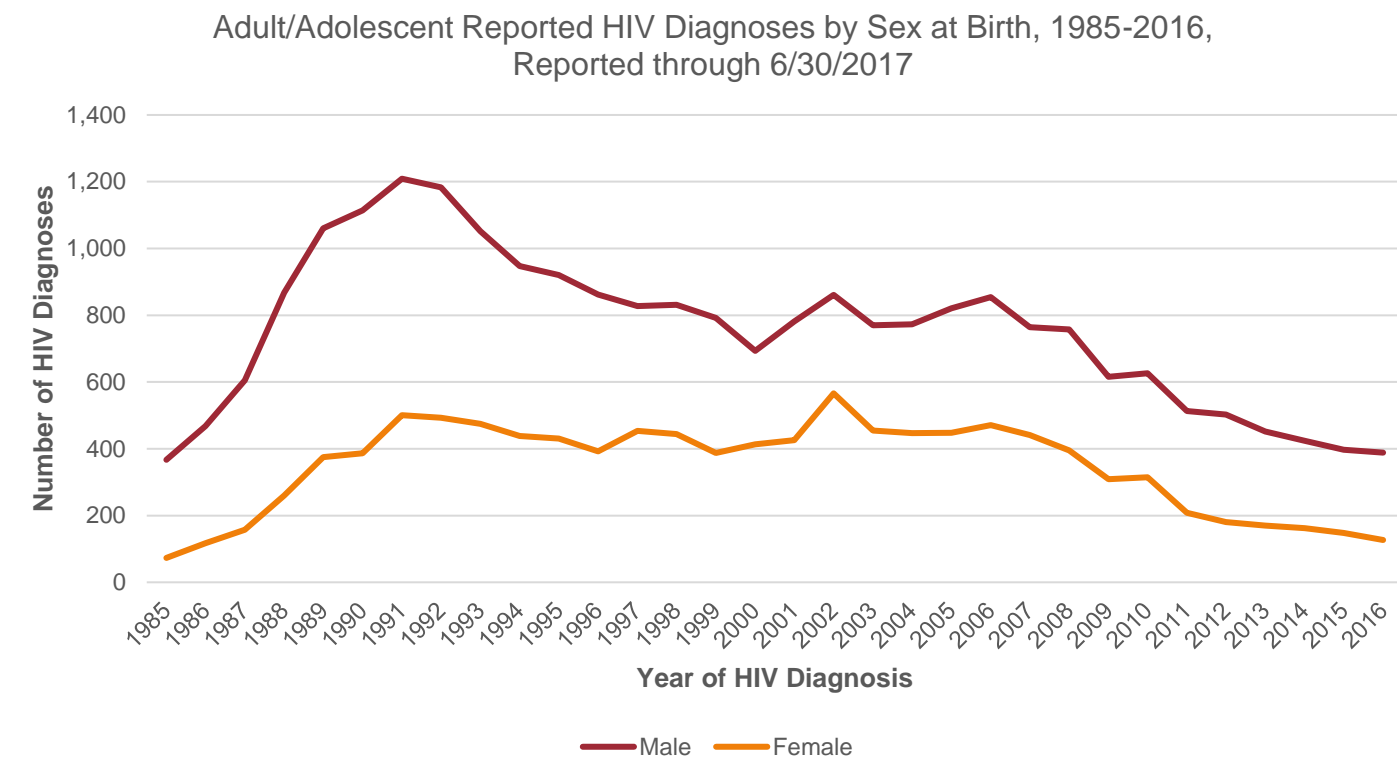
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2016, as Reported through 6/30/2017



YEAR	LIVING HIV CASES WITHOUT AIDS	LIVING HIV CASES WITH AIDS	TOTAL LIVING HIV CASES	YEAR	LIVING HIV CASES WITHOUT AIDS	LIVING HIV CASES WITH AIDS	TOTAL LIVING HIV CASES
1985	482	95	577	2001	4,366	6,568	10,934
1986	886	181	1,067	2002	4,594	7,033	11,627
1987	1,382	317	1,699	2003	4,708	7,351	12,059
1988	2,068	544	2,612	2004	4,861	7,793	12,654
1989	2,905	787	3,692	2005	5,140	8,156	13,296
1990	3,603	1,159	4,762	2006	5,559	8,490	14,049
1991	4,292	1,616	5,908	2007	6,098	8,634	14,732
1992	4,553	2,296	6,849	2008	6,568	8,808	15,376
1993	4,466	3,041	7,507	2009	6,900	8,963	15,863
1994	4,348	3,428	7,776	2010	7,214	9,161	16,375
1995	4,176	3,752	7,928	2011	7,417	9,300	16,717
1996	4,015	4,199	8,214	2012	7,550	9,470	17,020
1997	4,034	4,782	8,816	2013	7,661	9,600	17,261
1998	4,158	5,305	9,463	2014	7,854	9,623	17,477
1999	4,209	5,764	9,973	2015	8,012	9,639	17,651
2000	4,307	6,139	10,446	2016	8,204	9,787	17,991

Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2016, Reported through 6/30/2017

Number and Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017

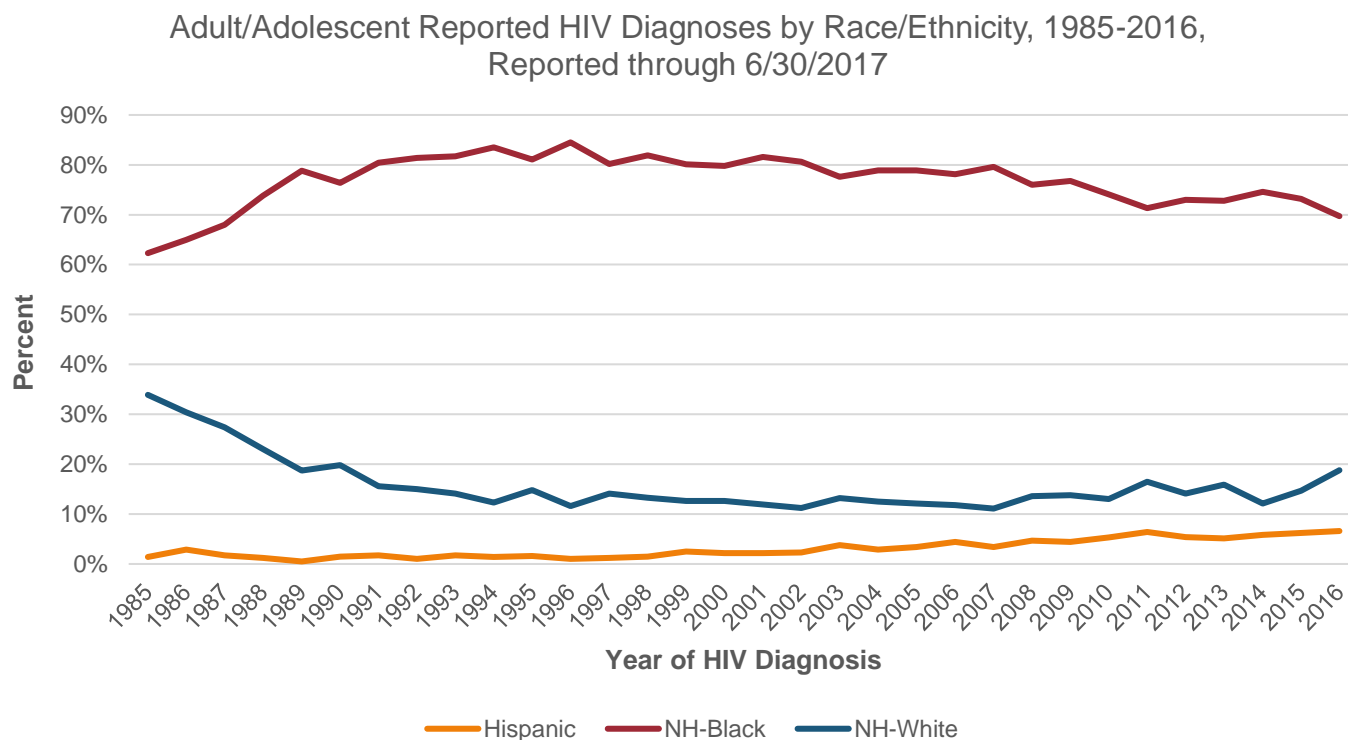
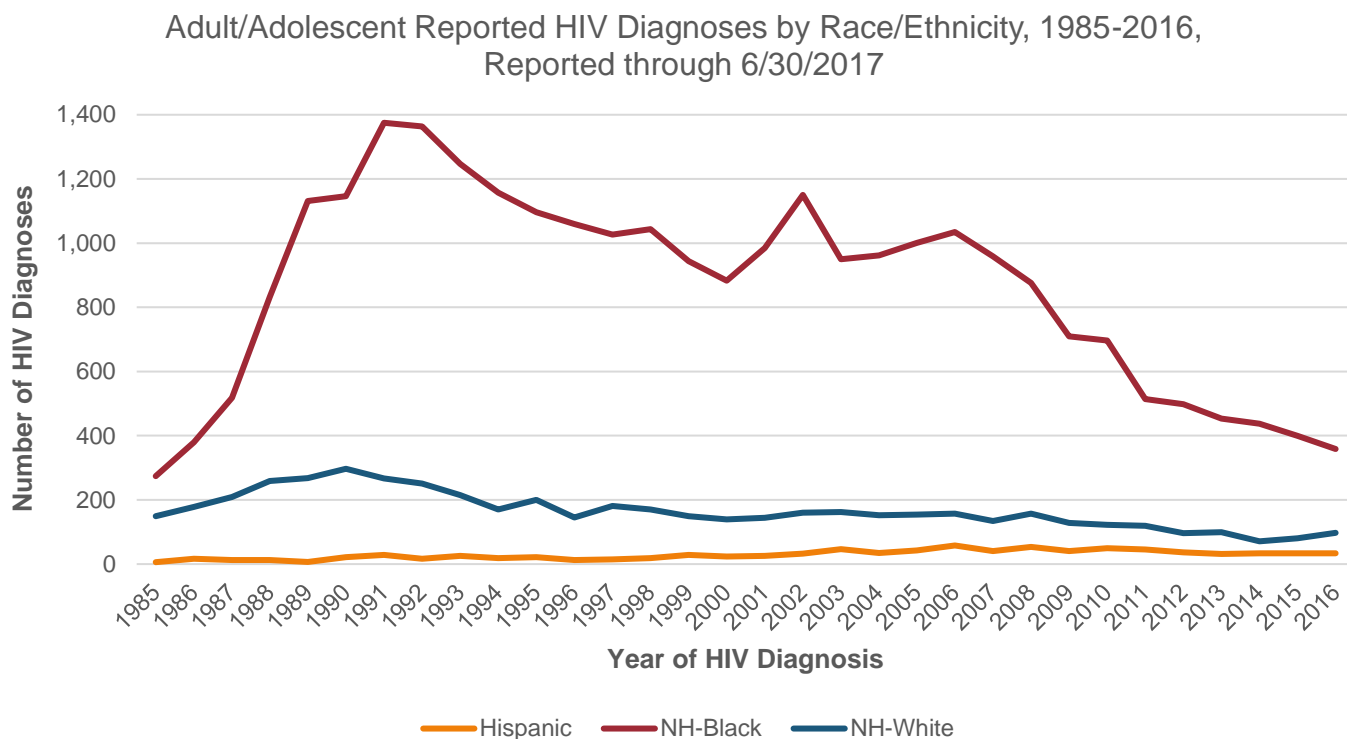


ADULT/ADOLESCENT REPORTED HIV DIAGNOSES

YEAR OF HIV DIAGNOSIS	No.	SEX AT BIRTH			
		Male		Female	
		No.	%	No.	%
<1985	225	194	86.2%	31	13.8%
1985	440	367	83.4%	73	16.6%
1986	585	468	80.0%	117	20.0%
1987	762	605	79.4%	157	20.6%
1988	1,128	868	77.0%	260	23.0%
1989	1,435	1,060	73.9%	375	26.1%
1990	1,500	1,114	74.3%	386	25.7%
1991	1,710	1,209	70.7%	501	29.3%
1992	1,676	1,183	70.6%	493	29.4%
1993	1,527	1,052	68.9%	475	31.1%
1994	1,385	947	68.4%	438	31.6%
1995	1,351	920	68.1%	431	31.9%
1996	1,254	862	68.7%	392	31.3%
1997	1,281	827	64.6%	454	35.4%
1998	1,275	831	65.2%	444	34.8%
1999	1,179	792	67.2%	387	32.8%
2000	1,106	693	62.7%	413	37.3%
2001	1,207	781	64.7%	426	35.3%
2002	1,427	861	60.3%	566	39.7%
2003	1,225	770	62.9%	455	37.1%
2004	1,220	773	63.4%	447	36.6%
2005	1,269	821	64.7%	448	35.3%
2006	1,325	854	64.5%	471	35.5%
2007	1,205	764	63.4%	441	36.6%
2008	1,152	757	65.7%	395	34.3%
2009	925	616	66.6%	309	33.4%
2010	941	626	66.5%	315	33.5%
2011	721	513	71.2%	208	28.8%
2012	682	502	73.6%	180	26.4%
2013	622	452	72.7%	170	27.3%
2014	586	424	72.4%	162	27.6%
2015	545	397	72.8%	148	27.2%
2016	515	388	75.3%	127	24.7%
TOTAL	35,386	24,291	68.6%	11,095	31.4%

Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2016, Reported through 6/30/2017

Number and Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017

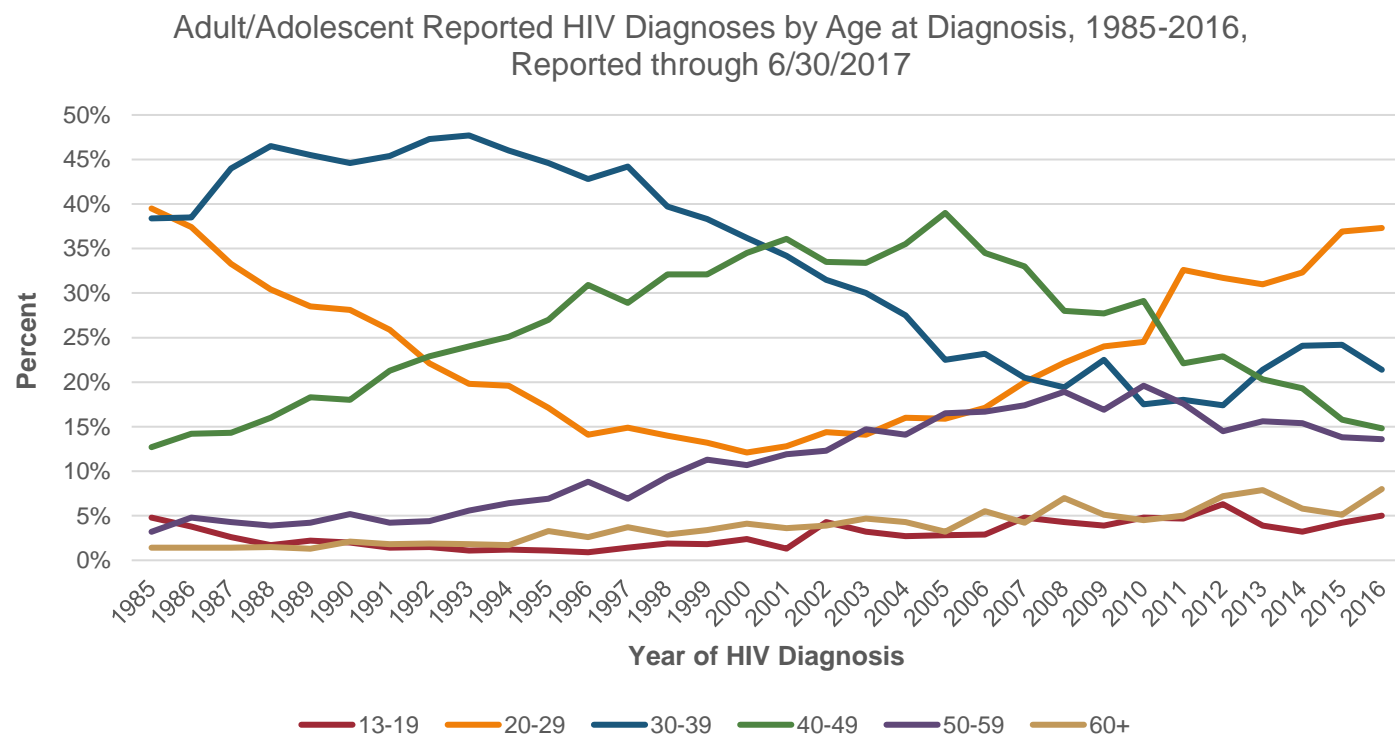
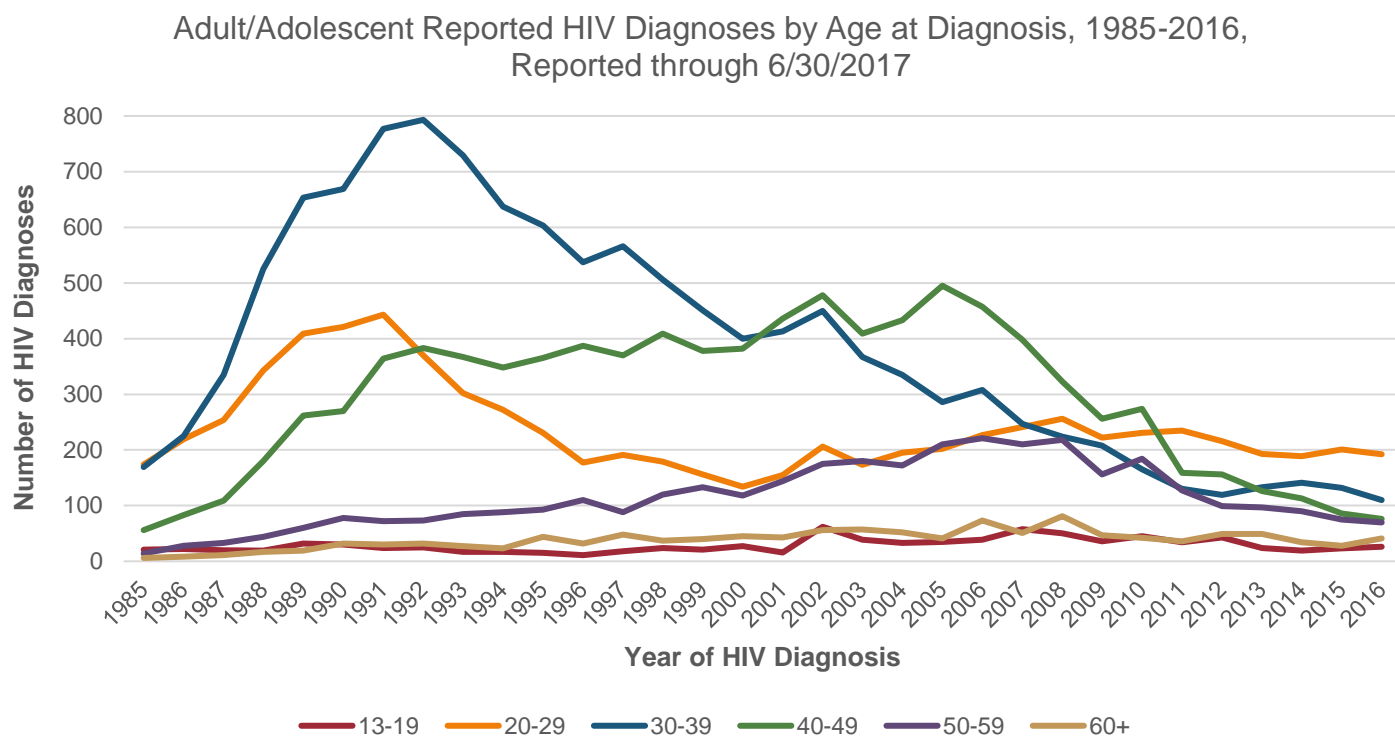


Non-Hispanic Other race not shown

YEAR OF HIV DIAGNOSIS	No.	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		RACE/ETHNICITY							
		Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	225	7	3.1%	121	53.8%	91	40.4%	6	2.7%
1985	440	6	1.4%	274	62.3%	149	33.9%	11	2.5%
1986	585	17	2.9%	380	65.0%	178	30.4%	10	1.7%
1987	762	13	1.7%	518	68.0%	209	27.4%	22	2.9%
1988	1,128	13	1.2%	832	73.8%	259	23.0%	24	2.1%
1989	1,435	7	0.5%	1,131	78.8%	268	18.7%	29	2.0%
1990	1,500	22	1.5%	1,146	76.4%	297	19.8%	35	2.3%
1991	1,710	29	1.7%	1,375	80.4%	267	15.6%	39	2.3%
1992	1,676	17	1.0%	1,364	81.4%	251	15.0%	44	2.6%
1993	1,527	26	1.7%	1,247	81.7%	215	14.1%	39	2.6%
1994	1,385	19	1.4%	1,157	83.5%	170	12.3%	39	2.8%
1995	1,351	22	1.6%	1,096	81.1%	200	14.8%	33	2.4%
1996	1,254	13	1.0%	1,060	84.5%	145	11.6%	36	2.9%
1997	1,281	15	1.2%	1,027	80.2%	181	14.1%	58	4.5%
1998	1,275	19	1.5%	1,044	81.9%	170	13.3%	42	3.3%
1999	1,179	29	2.5%	944	80.1%	149	12.6%	57	4.8%
2000	1,106	24	2.2%	883	79.8%	139	12.6%	60	5.4%
2001	1,207	26	2.2%	985	81.6%	144	11.9%	52	4.3%
2002	1,427	33	2.3%	1,150	80.6%	160	11.2%	84	5.9%
2003	1,225	47	3.8%	950	77.6%	162	13.2%	66	5.4%
2004	1,220	35	2.9%	962	78.9%	152	12.5%	71	5.8%
2005	1,269	43	3.4%	1,001	78.9%	154	12.1%	71	5.6%
2006	1,325	58	4.4%	1,035	78.1%	157	11.8%	75	5.7%
2007	1,205	41	3.4%	959	79.6%	134	11.1%	71	5.9%
2008	1,152	54	4.7%	876	76.0%	157	13.6%	65	5.6%
2009	925	41	4.4%	710	76.8%	128	13.8%	46	5.0%
2010	941	50	5.3%	697	74.1%	122	13.0%	72	7.7%
2011	721	46	6.4%	514	71.3%	119	16.5%	42	5.8%
2012	682	37	5.4%	498	73.0%	96	14.1%	51	7.5%
2013	622	32	5.1%	453	72.8%	99	15.9%	38	6.1%
2014	586	34	5.8%	437	74.6%	71	12.1%	44	7.5%
2015	545	34	6.2%	399	73.2%	80	14.7%	32	5.9%
2016	515	34	6.6%	359	69.7%	97	18.8%	25	4.9%
TOTAL	35,386	943	2.7%	27,584	78.0%	5,370	15.2%	1,489	4.2%

Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2016, Reported through 6/30/2017

Number and Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017

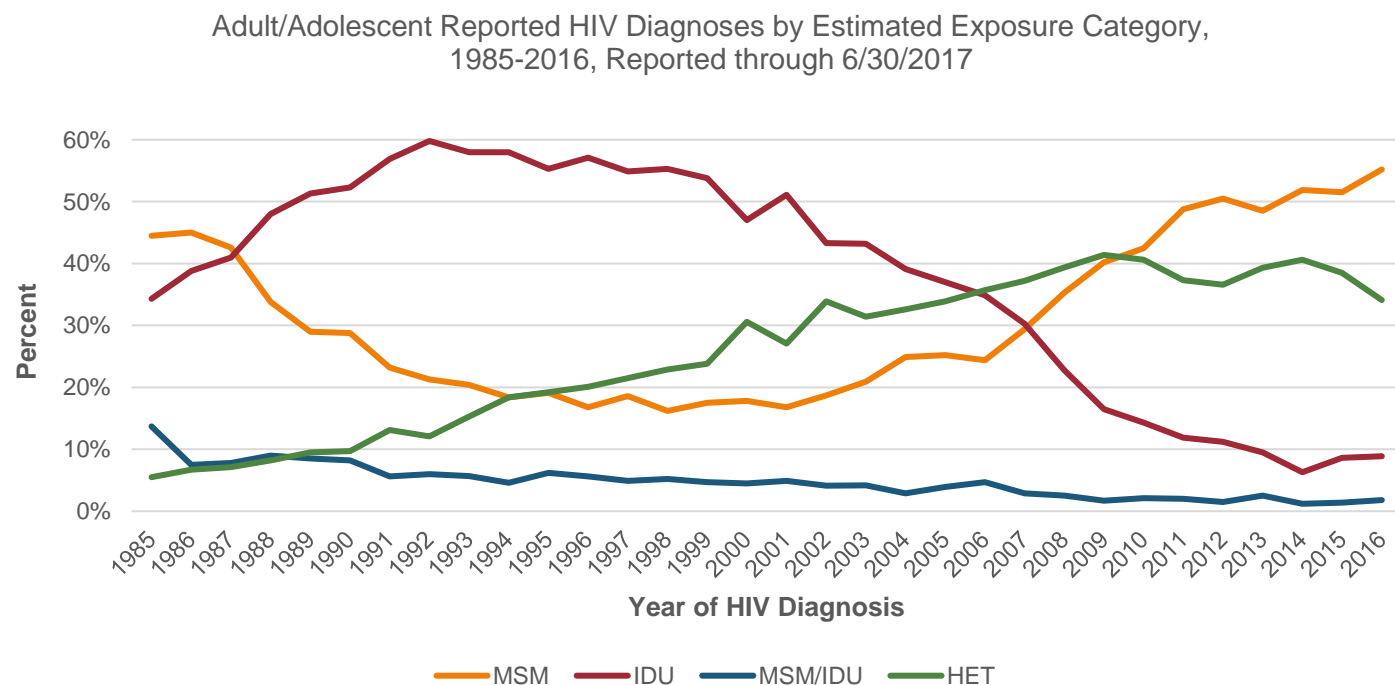
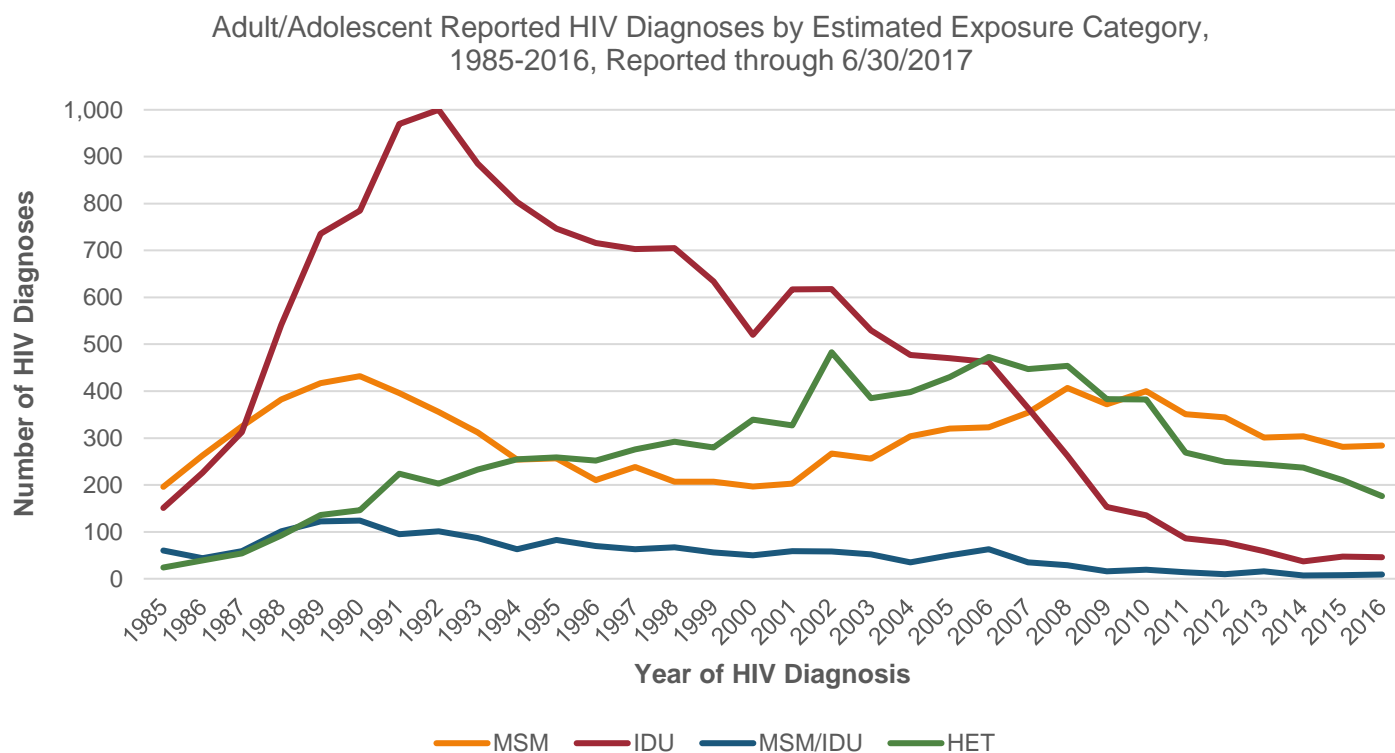


ADULT/ADOLESCENT REPORTED HIV DIAGNOSES

YEAR OF HIV DIAGNOSIS	No.	AGE AT HIV DIAGNOSIS											
		Age 13-19		Age 20-29		Age 30-39		Age 40-49		Age 50-59		Age 60+	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	225	14	6.2%	98	43.6%	69	30.7%	30	13.3%	13	5.8%	1	0.4%
1985	440	21	4.8%	174	39.5%	169	38.4%	56	12.7%	14	3.2%	6	1.4%
1986	585	22	3.8%	219	37.4%	225	38.5%	83	14.2%	28	4.8%	8	1.4%
1987	762	20	2.6%	254	33.3%	335	44.0%	109	14.3%	33	4.3%	11	1.4%
1988	1,128	19	1.7%	343	30.4%	525	46.5%	180	16.0%	44	3.9%	17	1.5%
1989	1,435	32	2.2%	409	28.5%	653	45.5%	262	18.3%	60	4.2%	19	1.3%
1990	1,500	30	2.0%	421	28.1%	669	44.6%	270	18.0%	78	5.2%	32	2.1%
1991	1,710	24	1.4%	443	25.9%	777	45.4%	364	21.3%	72	4.2%	30	1.8%
1992	1,676	25	1.5%	370	22.1%	793	47.3%	383	22.9%	73	4.4%	32	1.9%
1993	1,527	17	1.1%	302	19.8%	729	47.7%	367	24.0%	85	5.6%	27	1.8%
1994	1,385	17	1.2%	272	19.6%	637	46.0%	348	25.1%	88	6.4%	23	1.7%
1995	1,351	15	1.1%	231	17.1%	603	44.6%	365	27.0%	93	6.9%	44	3.3%
1996	1,254	11	0.9%	177	14.1%	537	42.8%	387	30.9%	110	8.8%	32	2.6%
1997	1,281	18	1.4%	191	14.9%	566	44.2%	370	28.9%	88	6.9%	48	3.7%
1998	1,275	24	1.9%	179	14.0%	506	39.7%	409	32.1%	120	9.4%	37	2.9%
1999	1,179	21	1.8%	156	13.2%	451	38.3%	378	32.1%	133	11.3%	40	3.4%
2000	1,106	27	2.4%	134	12.1%	400	36.2%	382	34.5%	118	10.7%	45	4.1%
2001	1,207	16	1.3%	155	12.8%	413	34.2%	436	36.1%	144	11.9%	43	3.6%
2002	1,427	62	4.3%	206	14.4%	450	31.5%	478	33.5%	175	12.3%	56	3.9%
2003	1,225	39	3.2%	173	14.1%	367	30.0%	409	33.4%	180	14.7%	57	4.7%
2004	1,220	33	2.7%	195	16.0%	335	27.5%	433	35.5%	172	14.1%	52	4.3%
2005	1,269	35	2.8%	202	15.9%	286	22.5%	495	39.0%	210	16.5%	41	3.2%
2006	1,325	39	2.9%	227	17.1%	308	23.2%	457	34.5%	221	16.7%	73	5.5%
2007	1,205	58	4.8%	241	20.0%	247	20.5%	398	33.0%	210	17.4%	51	4.2%
2008	1,152	50	4.3%	256	22.2%	224	19.4%	323	28.0%	218	18.9%	81	7.0%
2009	925	36	3.9%	222	24.0%	208	22.5%	256	27.7%	156	16.9%	47	5.1%
2010	941	45	4.8%	231	24.5%	165	17.5%	274	29.1%	184	19.6%	42	4.5%
2011	721	34	4.7%	235	32.6%	130	18.0%	159	22.1%	127	17.6%	36	5.0%
2012	682	43	6.3%	216	31.7%	119	17.4%	156	22.9%	99	14.5%	49	7.2%
2013	622	24	3.9%	193	31.0%	133	21.4%	126	20.3%	97	15.6%	49	7.9%
2014	586	19	3.2%	189	32.3%	141	24.1%	113	19.3%	90	15.4%	34	5.8%
2015	545	23	4.2%	201	36.9%	132	24.2%	86	15.8%	75	13.8%	28	5.1%
2016	515	26	5.0%	192	37.3%	110	21.4%	76	14.8%	70	13.6%	41	8.0%
TOTAL	35,386	939	2.7%	7,707	21.8%	12,412	35.1%	9,418	26.6%	3,678	10.4%	1,232	3.5%

Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Estimated Exposure Category, 1985-2016, Reported through 6/30/2017

Number and Percent by Estimated Exposure Category[§] of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017



Other Exposure Category not shown

[§] Multiple imputation was used to estimate and adjust for missing transmission category.

YEAR OF HIV DIAGNOSIS	No.**	% with No Reported Exposure*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES									
			ESTIMATED EXPOSURE CATEGORY§									
			MSM		IDU		MSM/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	225	2.2%	128	56.8%	62	27.4%	19	8.2%	8	3.6%	9	4.0%
1985	440	4.5%	196	44.5%	151	34.3%	60	13.7%	24	5.5%	9	2.0%
1986	585	3.2%	263	45.0%	226	38.8%	44	7.5%	39	6.7%	12	2.1%
1987	762	3.0%	325	42.6%	313	41.0%	59	7.8%	54	7.1%	11	1.4%
1988	1,128	3.1%	382	33.8%	541	48.0%	101	9.0%	92	8.2%	12	1.1%
1989	1,435	2.6%	417	29.0%	736	51.3%	122	8.5%	136	9.5%	25	1.7%
1990	1,500	3.9%	432	28.8%	785	52.3%	124	8.2%	146	9.7%	13	0.9%
1991	1,710	4.1%	396	23.2%	970	56.9%	95	5.6%	224	13.1%	20	1.2%
1992	1,676	4.8%	356	21.3%	1,000	59.8%	101	6.0%	203	12.1%	12	0.7%
1993	1,527	2.9%	312	20.4%	885	58.0%	87	5.7%	233	15.3%	10	0.7%
1994	1,385	4.2%	254	18.4%	803	58.0%	63	4.6%	255	18.4%	9	0.7%
1995	1,351	4.3%	257	19.1%	747	55.3%	83	6.2%	259	19.2%	4	0.3%
1996	1,254	4.3%	210	16.8%	716	57.1%	70	5.6%	252	20.1%	5	0.4%
1997	1,281	6.3%	238	18.6%	703	54.9%	63	4.9%	276	21.5%	2	0.2%
1998	1,275	5.6%	207	16.2%	705	55.3%	67	5.2%	292	22.9%	4	0.3%
1999	1,179	7.2%	207	17.5%	634	53.8%	56	4.7%	280	23.8%	2	0.2%
2000	1,106	7.2%	197	17.8%	520	47.0%	50	4.5%	339	30.6%	1	0.1%
2001	1,207	8.0%	203	16.8%	617	51.1%	59	4.9%	327	27.1%	1	0.1%
2002	1,427	10.4%	267	18.7%	618	43.3%	58	4.1%	483	33.9%	1	0.1%
2003	1,225	9.6%	256	20.9%	530	43.2%	52	4.2%	385	31.4%	3	0.2%
2004	1,220	10.1%	304	24.9%	477	39.1%	35	2.9%	398	32.6%	6	0.5%
2005	1,269	14.8%	320	25.2%	470	37.0%	50	3.9%	430	33.9%	0	0.0%
2006	1,325	19.2%	323	24.4%	462	34.9%	63	4.7%	473	35.7%	4	0.3%
2007	1,205	20.4%	354	29.4%	364	30.3%	35	2.9%	447	37.2%	3	0.2%
2008	1,152	27.9%	407	35.3%	262	22.8%	29	2.5%	454	39.4%	0	0.0%
2009	925	29.1%	372	40.2%	153	16.5%	16	1.7%	383	41.4%	1	0.1%
2010	941	33.8%	400	42.5%	135	14.3%	19	2.1%	382	40.6%	4	0.4%
2011	721	30.5%	351	48.8%	86	11.9%	14	2.0%	269	37.3%	0	0.0%
2012	682	20.8%	344	50.5%	77	11.2%	10	1.5%	249	36.6%	1	0.1%
2013	622	12.2%	301	48.5%	59	9.5%	16	2.5%	244	39.3%	1	0.2%
2014	586	11.6%	304	51.9%	37	6.3%	7	1.2%	237	40.6%	0	0.0%
2015	545	10.3%	281	51.5%	47	8.6%	8	1.4%	210	38.5%	0	0.0%
2016	515	30.1%	284	55.2%	46	8.9%	9	1.8%	176	34.1%	0	0.0%
TOTAL	35,386	10.4%	9,847	27.8%	14,934	42.2%	1,743	4.9%	8,660	24.5%	185	0.5%

§ Multiple imputation was used to estimate and adjust for missing transmission category.

*Percent with no reported exposure prior to multiple imputation adjustment.

** Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1% of cases missing transmission category after multiple imputation.

Section III – Adult/Adolescent Cases by Jurisdiction

Table 1 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through 6/30/2017

JURISDICTION OF RESIDENCE AT HIV DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	%	Median Count
Anne Arundel	476,307	43	8.3%	9.0	79.1%	86.0%	39.5%	88.4%	259
Baltimore City	518,161	278	54.0%	53.7	83.1%	88.5%	22.7%	86.0%	415
Baltimore	701,795	139	27.0%	19.8	83.5%	89.9%	24.5%	84.9%	368
Carroll	142,910	2	0.4%	1.4	***	***	***	***	***
Harford	211,682	23	4.5%	10.9	69.6%	82.6%	43.5%	78.3%	123
Howard	262,960	28	5.4%	10.6	82.1%	82.1%	25.0%	82.1%	226
Queen Anne's	41,644	2	0.4%	4.8	***	***	***	***	***
TOTAL	2,355,460	515	100.0%	21.9	82.3%	88.2%	25.8%	85.4%	368

*** Data withheld due to low population counts and/or case counts

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Rate: Number of adult/adolescent HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 2 – Adult/Adolescent AIDS Diagnoses during 2016, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through 6/30/2017

JURISDICTION OF RESIDENCE AT AIDS DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Anne Arundel	476,307	28	9.3%	5.9	4.0	57.1%
Baltimore City	518,161	178	59.3%	34.4	6.4	33.1%
Baltimore	701,795	63	21.0%	9.0	4.8	49.2%
Carroll	142,910	2	***	***	***	***
Harford	211,682	14	4.7%	6.6	1.5	71.4%
Howard	262,960	11	3.7%	4.2	2.3	45.5%
Queen Anne's	41,644	4	***	***	***	***
TOTAL	2,355,460	300	100.0%	12.7	5.4	41.7%

*** Data withheld due to low population counts and/or case counts

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Rate: Number of adult/adolescent AIDS diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Mean Years from HIV Diagnosis: Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Table 3 – Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Residence at Diagnosis, Reported through 6/30/2017

JURISDICTION OF RESIDENCE AT DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS			ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS			ADULT/ADOLESCENT TOTAL LIVING HIV CASES			
		No.	% of Total	Rate	No.	% of Total	Rate	No.	% of Total	Rate	Ratio (1 in X)
Anne Arundel	476,307	543	6.7%	114.0	646	6.7%	135.6	1,189	6.7%	249.6	400
Baltimore City	518,161	5,592	69.4%	1,079.2	6,819	70.9%	1,316.0	12,411	70.2%	2,395.2	41
Baltimore	701,795	1,355	16.8%	193.1	1,526	15.9%	217.4	2,881	16.3%	410.5	243
Carroll	142,910	60	0.7%	42.0	74	0.8%	51.8	134	0.8%	93.8	1,066
Harford	211,682	197	2.4%	93.1	246	2.6%	116.2	443	2.5%	209.3	477
Howard	262,960	293	3.6%	111.4	276	2.9%	105.0	569	3.2%	216.4	462
Queen Anne's	41,644	16	0.2%	38.4	37	0.4%	88.8	53	0.3%	127.3	785
TOTAL	2,355,460	8,056	100.0%	342.0	9,624	100.0%	408.6	17,680	100.0%	750.6	133

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 4 – Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Residence at Diagnosis or Current Residence, Reported through 6/30/2017

Jurisdiction of Residence	Population Age 13+	Adult/Adolescent Total Living HIV Cases								
		Residence at Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
Anne Arundel	476,307	1,189	6.7%	249.6	400	1,248	7.7%	262.0	381	5.0%
Baltimore City	518,161	12,411	70.2%	2,395.2	41	10,491	64.5%	2,024.7	49	-15.5%
Baltimore	701,795	2,881	16.3%	410.5	243	3,305	20.3%	470.9	212	14.7%
Carroll	142,910	134	0.8%	93.8	1,066	126	0.8%	88.2	1,134	-6.0%
Harford	211,682	443	2.5%	209.3	477	455	2.8%	214.9	465	2.7%
Howard	262,960	569	3.2%	216.4	462	592	3.6%	225.1	444	4.0%
Queen Anne's	41,644	53	0.3%	127.3	785	54	0.3%	129.7	771	1.9%
TOTAL	2,355,460	17,680	100.0%	750.6	133	16,271	100.0%	690.8	144	-8.0%

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Table 5 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Current Residence, Reported through 6/30/2017

JURISDICTION OF CURRENT RESIDENCE	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Anne Arundel	1,248	815	65.3%	585	10.7%	11.9%	15.6%	61.8%
Baltimore City	10,491	7,008	66.8%	537	13.2%	14.9%	17.2%	54.7%
Baltimore	3,305	2,201	66.6%	578	10.6%	12.7%	17.1%	59.6%
Carroll	126	78	61.9%	632	6.4%	20.5%	15.4%	57.7%
Harford	455	291	64.0%	542	13.1%	15.5%	16.2%	55.3%
Howard	592	394	66.6%	589	12.9%	11.4%	15.5%	60.2%
Queen Anne's	54	42	77.8%	615	7.1%	14.3%	16.7%	61.9%
TOTAL	16,271	10,829	66.6%	554	12.4%	14.2%	16.9%	56.5%

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Table 6 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Current Residence, Reported through 6/30/2017

JURISDICTION OF CURRENT RESIDENCE	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Anne Arundel	1,248	782	62.7%	79.9%	10,471
Baltimore City	10,491	6,414	61.1%	74.0%	9,550
Baltimore	3,305	2,011	60.8%	79.8%	10,070
Carroll	126	74	58.7%	90.5%	1,000
Harford	455	274	60.2%	86.1%	19,876
Howard	592	382	64.5%	79.8%	17,500
Queen Anne's	54	42	77.8%	85.7%	14,549
TOTAL	16,271	9,979	61.3%	76.4%	10,021

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

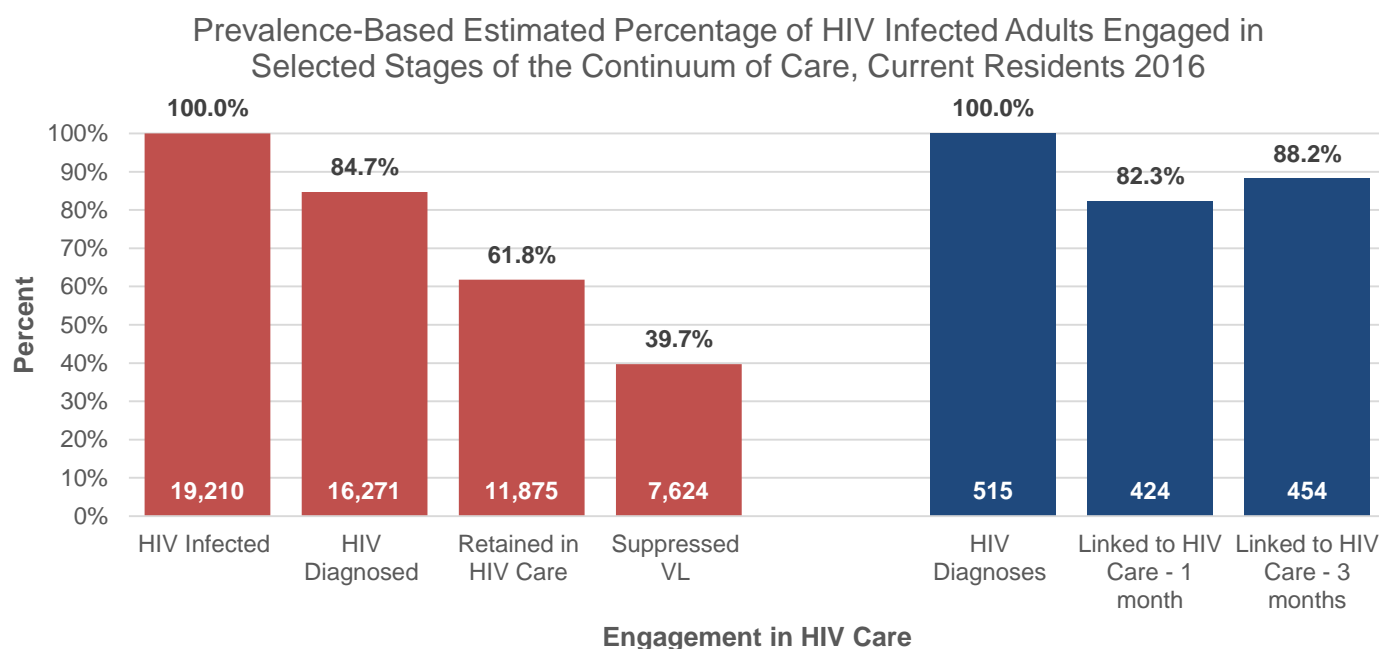
Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section IV – Continuum of Care Cascades

In their 2011 article in *Clinical Infectious Diseases*, Gardner et al.¹ utilize a continuum of care “cascade” to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2016 HIV Continuum of Care Cascades, Current Baltimore Metro Residents, Reported through 6/30/2017

The prevalence-based Baltimore Metro Engagement in HIV Care Cascade (below) uses the most recent Centers for Disease Control and Prevention (CDC) estimate of the number of undiagnosed persons in Maryland (15.3%)² to generate an estimated number of HIV infected persons currently residing in the Baltimore Metro area. It then uses Maryland surveillance data to describe the number and percentage of persons living with HIV in the Baltimore Metro area on 12/31/2016 and the number and percentage of new HIV diagnoses in 2016 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Infected	19,210	100.0%	New HIV Diagnoses	515	100.0%
HIV Diagnosed	16,271	84.7%	Linked to HIV Care – 1 Month	424	82.3%
Retained in HIV Care	11,875	61.8%	Linked to HIV Care – 3 Months	454	88.2%
Suppressed VL	7,624	39.7%			

HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (15.3%) in Maryland.

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year.

Retained in HIV Care: HIV Diagnosed with a reported CD4 or viral load test result performed during the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

New HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to HIV Care – 1 month: Adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

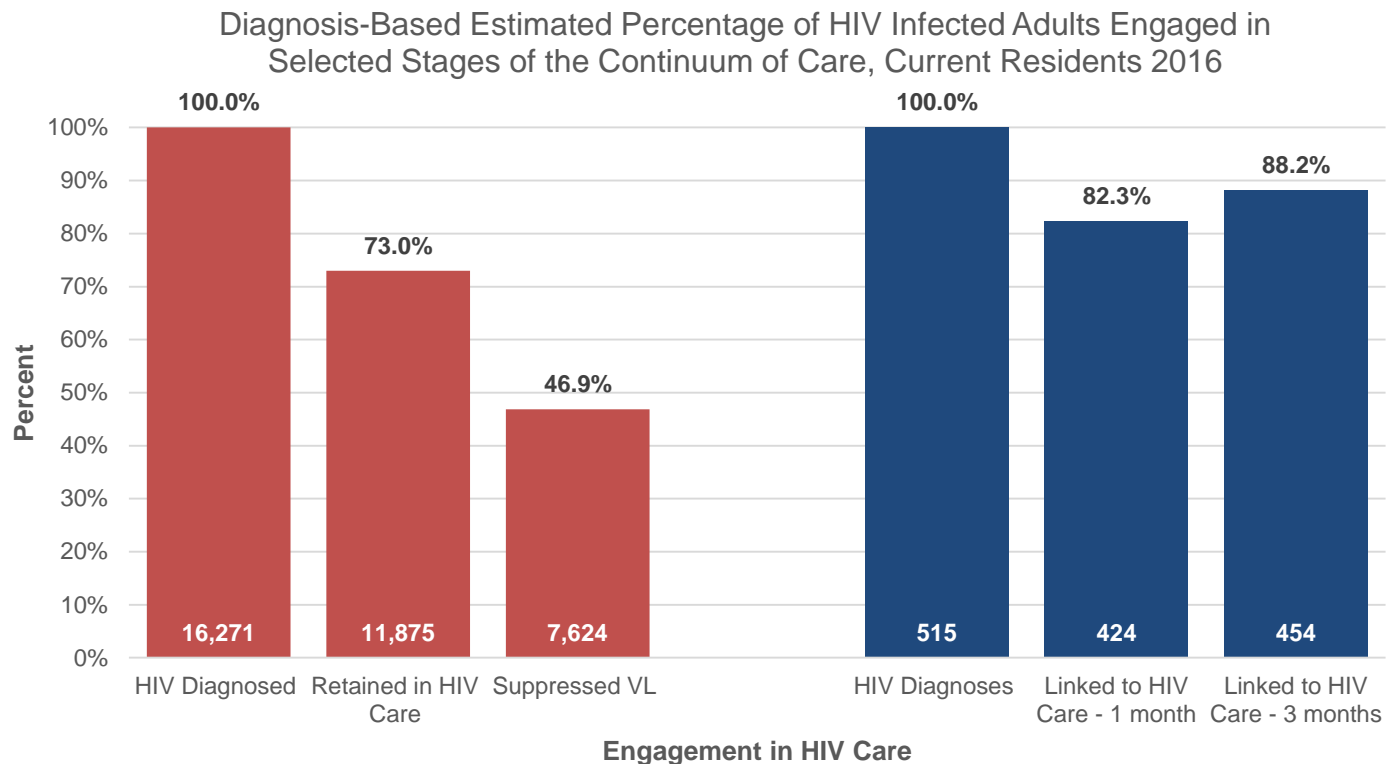
Linked to HIV Care – 3 months: Number of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

¹ Gardner et al, “The Spectrum of Engagement in HIV Care and its Relevance to Test-and-Treat Strategies for Prevention of HIV Infection.” *Clin Infect Dis*. 2011; 52 (6): 793-800.

²Centers for Disease Control and Prevention. Monitoring selected national HIV prevention and care objectives by using HIV surveillance data—United States and 6 dependent areas, 2015. *HIV Surveillance Supplemental Report* 2017;22(No. 2). <http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>. Published July 2017.

Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2016 HIV Continuum of Care Cascades, Current Baltimore Metro Residents, Reported through 6/30/2017

The diagnosis-based Baltimore Metro Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Baltimore Metro area residents to describe the number and percentage of persons living with HIV in the Baltimore Metro area on 12/31/2016 and the number and percentage of new HIV diagnoses in 2016 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Diagnosed	16,271	100.0%	New HIV Diagnoses	515	100.0%
Retained in HIV Care	11,875	73.0%	Linked to HIV Care – 1 Month	424	82.3%
Suppressed VL	7,624	46.9%	Linked to HIV Care – 3 Months	454	88.2%

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year with a recent address in Maryland between 2009 and 2016.

Retained in HIV Care: HIV Diagnosed with a reported CD4 or viral load test result performed during the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

New HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to HIV Care – 1 month: Adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

Linked to HIV Care – 3 months: Number of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Section V – Cases by Age

Table 7 – HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Age at HIV Diagnosis, Reported through 6/30/2017

AGE AT HIV DIAGNOSIS	POPULATION	REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	%	Median Count
<5 (Pediatric)	168,377	0	0.0%	0.0	--	--	--	--	--
5-12 (Pediatric)	275,049	1	0.2%	0.4	***	***	***	***	***
13-19	244,872	26	5.0%	10.6	***	***	***	***	***
20-29	389,701	192	37.2%	49.3	79.2%	87.5%	17.7%	85.4%	426
30-39	380,330	110	21.3%	28.9	88.2%	94.5%	26.4%	87.3%	352
40-49	352,295	76	14.7%	21.6	82.9%	82.9%	31.6%	84.2%	297
50-59	406,056	70	13.6%	17.2	77.1%	82.9%	40.0%	80.0%	238
60+	582,206	41	7.9%	7.0	87.8%	92.7%	39.0%	92.7%	342
TOTAL	2,798,886	516	100.0%	18.4	82.4%	88.2%	25.8%	85.5%	368

*** Data withheld due to low population counts and/or case counts

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Population: Population estimate for 7/1/2016.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Rate: Number of HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Linked to Care: Percent of reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 8 – HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017

AGE ON 12/31/2016	POPULATION	TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
<5	168,377	2	0.0%	50.0%	0.0	84,188
5-12	275,049	25	0.2%	16.0%	0.1	11,001
13-19	244,872	99	0.6%	20.2%	0.2	2,473
20-29	389,701	1,664	10.1%	31.3%	2.6	234
30-39	380,330	2,749	16.6%	43.3%	4.4	138
40-49	352,295	3,588	21.7%	58.9%	6.2	98
50-59	406,056	5,490	33.2%	66.0%	8.2	73
60+	582,206	2,940	17.8%	67.8%	3.1	198
TOTAL	2,798,886	16,557	100.0%	57.2%	3.6	169

Age on [date]: Age group of living cases on the specified date.

Population: Population estimate for 7/1/2016.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Percent Living with AIDS: The percent of reported HIV diagnoses with an AIDS diagnosis not reported to have died as of December 31st of the specified year.

Rate: Number of HIV cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 9 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017

AGE ON 12/31/2016	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
13-19	38	24	63.2%	550	0.0%	16.7%	29.2%	54.2%
20-29	1,488	928	62.4%	553	11.4%	12.5%	19.1%	57.0%
30-39	2,728	1,709	62.6%	548	12.9%	14.1%	17.3%	55.7%
40-49	3,587	2,330	65.0%	540	13.6%	13.9%	17.2%	55.2%
50-59	5,490	3,797	69.2%	556	12.6%	14.5%	15.8%	57.1%
60+	2,940	2,041	69.4%	561	10.8%	14.6%	17.3%	57.4%
TOTAL	16,271	10,829	66.6%	554	12.4%	14.2%	16.9%	56.5%

Table 10 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017

AGE ON 12/31/2016	ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
	No.	Recent Viral Load Test Result				Median Unsuppressed
		No. with Test	% with Test	% Suppressed		
13-19	38	31	81.6%	51.6%		13,183
20-29	1,488	966	64.9%	58.8%		10,877
30-39	2,728	1,669	61.2%	70.9%		13,580
40-49	3,587	2,189	61.0%	75.7%		12,900
50-59	5,490	3,418	62.3%	80.2%		6,669
60+	2,940	1,706	58.0%	85.2%		7,580
TOTAL	16,271	9,979	61.3%	76.4%		10,021

Age on [date]: Age group of living cases on the specified date.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section VI – Adult/Adolescent Cases by Demographics

Table 11 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Sex at Birth, Race/Ethnicity, and Country of Birth, Reported through 6/30/2017

SEX AT BIRTH	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	Median Count
Male	1,123,361	388	75.3%	34.5	82.0%	88.1%	25.0%	85.8%	368
Female	1,232,099	127	24.7%	10.3	83.5%	88.2%	28.3%	84.3%	373
TOTAL	2,355,460	515	100.0%	21.9	82.3%	88.2%	25.8%	85.4%	368

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	Median Count
Hispanic	114,678	34	6.6%	29.6	76.5%	82.4%	23.5%	82.4%	356
Non-Hispanic	2,240,782	481	93.4%	21.5	82.7%	88.6%	26.0%	85.7%	368
American Indian/Alaska Native, only	5,957	0	0.0%	0.0	--	--	--	--	--
Asian, only	131,584	7	1.4%	5.3	71.4%	71.4%	***	100.0%	374
Black, only	669,983	359	69.7%	53.6	81.6%	88.3%	22.6%	85.8%	391
Native Hawaiian/ Other Pacific Islander, only	1,213	0	0.0%	0.0	--	--	--	--	--
White, only	1,391,935	97	18.8%	7.0	86.6%	90.7%	39.2%	82.5%	260
Multiracial/ Other	40,110	18	3.5%	44.9	88.9%	88.9%	***	94.4%	312
TOTAL	2,355,460	515	100.0%	21.9	82.3%	88.2%	25.8%	85.4%	368

COUNTRY OF BIRTH	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	Median Count
United States	2,068,960	447	86.8%	21.6	81.7%	88.1%	25.1%	85.0%	371
Foreign-born	254,200	53	10.3%	20.8	83.0%	84.9%	34.0%	88.7%	328
Africa	--	30	5.8%	--	83.3%	86.7%	40.0%	90.0%	255
Asia	--	5	1.0%	--	***	***	***	***	***
Caribbean	--	7	1.4%	--	71.4%	71.4%	0.0%	57.1%	908
Central America	--	9	1.7%	--	88.9%	88.9%	33.3%	100.0%	402
Other	--	2	0.4%	--	***	***	***	***	***
Unknown	--	15	2.9%	--	100.0%	100.0%	20.0%	86.7%	375
TOTAL	2,323,160	515	100.0%	22.2	82.3%	88.2%	25.8%	85.4%	368

* Population data by sex at birth, age, and race/ethnicity are from the 2016 U.S. Census population estimates

** Population data by country of birth are from the 2015 American Community Survey

*** Data withheld due to low population and/or case counts

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Rate: Number of adult/adolescent HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 12 – Adult/Adolescent Living HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity, and Country of Birth, Reported through 6/30/2017

SEX AT BIRTH	POPULATION AGE 13+	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
Male	1,123,361	10,633	65.3%	55.9%	946.5	105
Female	1,232,099	5,638	34.7%	59.5%	457.6	218
TOTAL	2,355,460	16,271	100.0%	57.2%	690.8	144

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
Hispanic	114,678	715	4.4%	55.0%	623.5	160
Non-Hispanic	2,240,782	15,556	95.6%	57.3%	694.2	144
American Indian/Alaska Native, only	5,957	7	0.0%	42.9%	117.5	851
Asian, only	131,584	81	0.5%	37.0%	61.6	1,624
Black, only	669,983	12,202	75.0%	58.0%	1,821.2	54
Native Hawaiian/Other Pacific Islander, only	1,213	1	0.0%	0.0%	82.5	1,212
White, only	1,391,935	2,245	13.8%	52.3%	161.3	620
Multiracial/Other	40,110	1,020	6.3%	61.0%	2,543.0	39
TOTAL	2,355,460	16,271	100.0%	57.2%	690.8	144

COUNTRY OF BIRTH	POPULATION AGE 13+**	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
United States	2,068,960	15,096	92.8%	57.9%	729.6	137
Foreign-born	254,200	699	4.3%	56.1%	275.0	363
Africa	--	369	2.3%	54.2%	--	--
Asia	--	85	0.5%	56.5%	--	--
Caribbean	--	62	0.4%	58.1%	--	--
Central America	--	120	0.7%	61.7%	--	--
Other	--	63	0.4%	54.0%	--	--
Unknown	--	476	2.9%	35.1%	--	--
TOTAL	2,323,160	16,271	100.0%	57.2%	700.4	142

* Population data by sex at birth, age, and race/ethnicity are from the 2016 U.S. Census population estimates

** Population data by country of birth are from the 2015 American Community Survey

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Living with AIDS: The percent of reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 13 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2017

SEX AT BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male	10,633	6,902	64.9%	537	12.3%	14.6%	18.1%	55.0%
Female	5,638	3,927	69.7%	585	12.5%	13.4%	14.8%	59.3%
TOTAL	16,271	10,829	66.6%	554	12.4%	14.2%	16.9%	56.5%

RACE/ETHNICITY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Hispanic	715	491	68.7%	531	10.4%	16.7%	18.3%	54.6%
Non-Hispanic	15,556	10,338	66.5%	554	12.5%	14.0%	16.9%	56.6%
American Indian/Alaska Native, only	7	***	***	***	***	***	***	***
Asian, only	81	51	63.0%	540	3.9%	9.8%	31.4%	54.9%
Black, only	12,202	8,116	66.5%	546	12.7%	14.4%	17.0%	55.8%
Native Hawaiian/Other Pacific Islander, only	1	***	***	***	***	***	***	***
White, only	2,245	1,459	65.0%	601	10.3%	12.7%	15.1%	61.9%
Multiracial/Other	1,020	710	69.6%	552	14.8%	12.7%	17.6%	54.9%
TOTAL	16,271	10,829	66.6%	554	12.4%	14.2%	16.9%	56.5%

COUNTRY OF BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
United States	15,096	10,050	66.6%	554	12.7%	14.1%	16.6%	56.6%
Foreign-born	699	479	68.5%	534	9.2%	13.6%	23.6%	53.7%
Africa	369	253	68.6%	529	9.1%	13.8%	23.7%	53.4%
Asia	85	55	64.7%	478	7.3%	10.9%	32.7%	49.1%
Caribbean	62	45	72.6%	559	8.9%	8.9%	17.8%	64.4%
Central America	120	83	69.2%	538	8.4%	18.1%	19.3%	54.2%
Other	63	43	68.3%	493	14.0%	11.6%	25.6%	48.8%
Unknown	476	300	63.0%	555	8.3%	17.0%	16.3%	58.3%
TOTAL	16,271	10,829	66.6%	554	12.4%	14.2%	16.9%	56.5%

*** Data withheld due to low population and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Table 14 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2017

SEX AT BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male	10,633	6,373	59.9%	77.3%	11,387
Female	5,638	3,606	64.0%	74.7%	8,528
TOTAL	16,271	9,979	61.3%	76.4%	10,021

RACE/ETHNICITY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Hispanic	715	450	62.9%	78.4%	14,038
Non-Hispanic	15,556	9,529	61.3%	76.3%	9,809
American Indian/Alaska Native, only	7	***	***	***	***
Asian, only	81	48	59.3%	85.4%	38,905
Black, only	12,202	7,537	61.8%	74.9%	9,502
Native Hawaiian/Other Pacific Islander, only	1	***	***	***	***
White, only	2,245	1,295	57.7%	82.4%	12,856
Multiracial/Other	1,020	647	63.4%	79.0%	11,640
TOTAL	16,271	9,979	61.3%	76.4%	10,021

COUNTRY OF BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
United States	15,096	9,263	61.4%	75.9%	10,000
Foreign-born	699	431	61.7%	85.6%	7,864
Africa	369	229	62.1%	86.5%	6,280
Asia	85	48	56.5%	87.5%	27,462
Caribbean	62	41	66.1%	85.4%	16,074
Central America	120	75	62.5%	84.0%	13,517
Other	63	38	60.3%	81.6%	5,623
Unknown	476	285	59.9%	77.9%	12,860
TOTAL	16,271	9,979	61.3%	76.4%	10,021

*** Data withheld due to low population and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

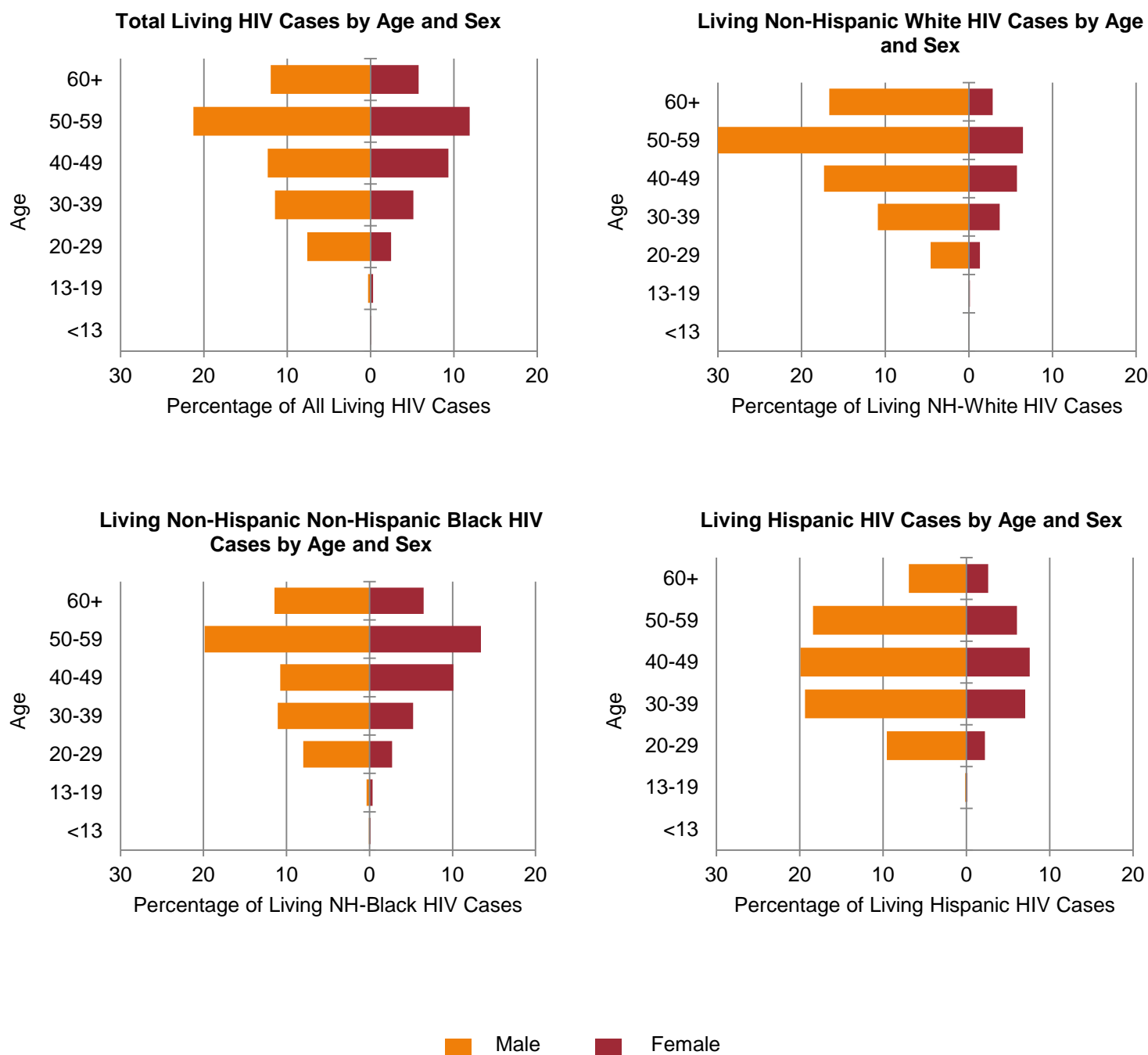
With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section VII – HIV Cases by Expanded Demographics

Figure 9 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017



Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Table 15 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

TOTAL LIVING MALE HIV CASES						
AGE ON 12/31/2016		RACE/ETHNICITY				TOTAL MALES BY AGE GROUP
		Hispanic	Non- Hispanic Black, only	Non- Hispanic White, only	Non- Hispanic Other Race	
<13 (Pediatric)	Population	21,755	71,593	106,381	25,894	225,622
	Cases	0	9	1	0	10
	Rate	0.0	12.6	0.9	0.0	4.4
	Ratio (1 in X)	--	7,954	106,381	--	22,562
13-19	Population	8,653	39,913	63,736	12,460	124,763
	Cases	1	44	1	3	49
	Rate	11.6	110.2	1.6	24.1	39.3
	Ratio (1 in X)	8,653	907	63,736	4,153	2,546
20-29	Population	13,088	60,483	104,563	16,556	194,690
	Cases	69	993	103	91	1,256
	Rate	527.2	1,641.8	98.5	549.6	645.1
	Ratio (1 in X)	189	60	1,015	181	155
30-39	Population	15,877	49,311	102,316	17,098	184,602
	Cases	140	1,376	246	135	1,897
	Rate	881.8	2,790.5	240.4	789.6	1,027.6
	Ratio (1 in X)	113	35	415	126	97
40-49	Population	10,897	46,876	96,363	14,873	169,009
	Cases	144	1,340	391	165	2,040
	Rate	1,321.5	2,858.6	405.8	1,109.4	1,207.0
	Ratio (1 in X)	75	34	246	90	82
50-59	Population	6,400	50,802	126,035	11,135	194,372
	Cases	133	2,472	682	230	3,517
	Rate	2,078.1	4,866.0	541.1	2,065.6	1,809.4
	Ratio (1 in X)	48	20	184	48	55
60+	Population	4,688	54,895	183,603	12,739	255,925
	Cases	50	1,427	377	129	1,983
	Rate	1,066.6	2,599.5	205.3	1,012.6	774.8
	Ratio (1 in X)	93	38	487	98	129
TOTAL MALES BY RACE/ETHNICITY	Population	81,358	373,873	782,997	110,755	1,348,983
	Cases	537	7,661	1,801	753	10,752
	Rate	660.0	2,049.1	230.0	679.9	797.0
	Ratio (1 in X)	151	48	434	147	125

Age on [date]: Age group of living cases on the specified date.

Total Living Male HIV Cases: Reported HIV diagnoses with Male sex at birth with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Population: Population estimate for 7/1/2016.

Rate: Number of HIV cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 16 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

TOTAL LIVING FEMALE HIV CASES						
AGE ON 12/31/2016		RACE/ETHNICITY				TOTAL FEMALES BY AGE GROUP
		Hispanic	Non- Hispanic Black, only	Non- Hispanic White, only	Non- Hispanic Other Race	
<13 (Pediatric)	Population	20,893	69,687	101,601	25,623	217,804
	Cases	0	15	0	2	17
	Rate	0.0	21.5	0.0	7.8	7.8
	Ratio (1 in X)	--	4,645	--	12,811	12,812
13-19	Population	8,309	39,283	60,254	12,263	120,109
	Cases	1	45	3	1	50
	Rate	12.0	114.6	5.0	8.2	41.6
	Ratio (1 in X)	8,309	872	20,084	12,263	2,402
20-29	Population	11,952	64,579	100,894	17,586	195,011
	Cases	16	338	30	24	408
	Rate	133.9	523.4	29.7	136.5	209.2
	Ratio (1 in X)	747	191	3,363	732	477
30-39	Population	13,415	61,176	101,699	19,438	195,728
	Cases	51	655	83	63	852
	Rate	380.2	1,070.7	81.6	324.1	435.3
	Ratio (1 in X)	263	93	1,225	308	229
40-49	Population	9,639	56,827	100,079	16,741	183,286
	Cases	55	1,257	130	106	1,548
	Rate	570.6	2,212.0	129.9	633.2	844.6
	Ratio (1 in X)	175	45	769	157	118
50-59	Population	5,990	62,432	130,558	12,704	211,684
	Cases	44	1,673	146	110	1,973
	Rate	734.6	2,679.7	111.8	865.9	932.0
	Ratio (1 in X)	136	37	894	115	107
60+	Population	5,770	83,406	221,834	15,271	326,281
	Cases	19	810	64	64	957
	Rate	329.3	971.2	28.9	419.1	293.3
	Ratio (1 in X)	303	102	3,466	238	340
TOTAL FEMALES BY RACE/ETHNICITY	Population	75,968	437,390	816,919	119,626	1,449,903
	Cases	186	4,793	456	370	5,805
	Rate	244.8	1,095.8	55.8	309.3	400.4
	Ratio (1 in X)	408	91	1,791	323	249

Age on [date]: Age group of living cases on the specified date.

Total Living Female HIV Cases: Reported HIV diagnoses with Female sex at birth with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

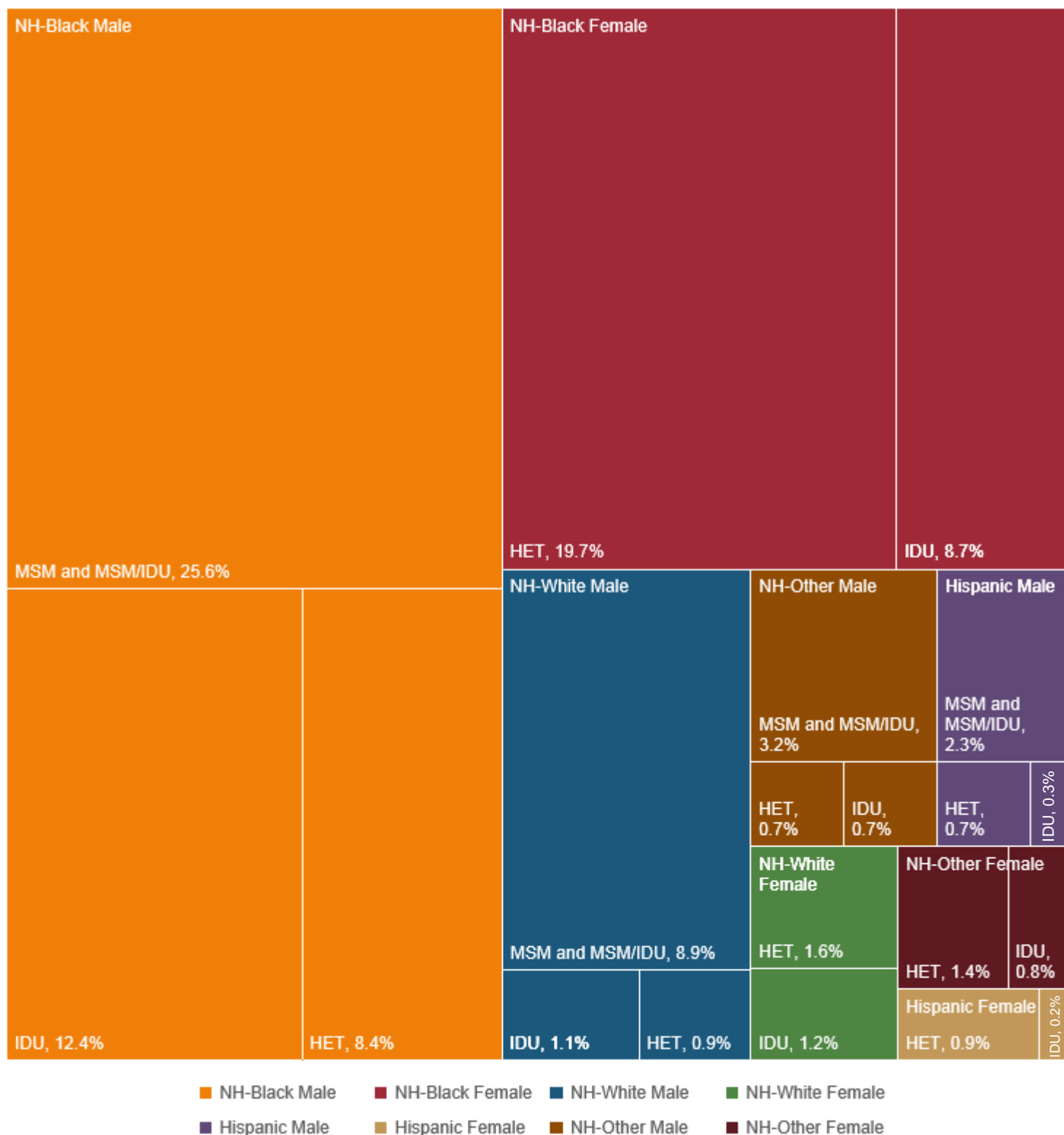
Population: Population estimate for 7/1/2016.

Rate: Number of HIV cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Section VIII – HIV Exposure Category

Figure 10 – Proportion of Adult/Adolescent Total Living HIV Cases, by Estimated Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2016, Reported through 6/30/2017



Multiple imputation was used to estimate and adjust for missing transmission category.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Men who have Sex with Men (MSM): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Table 17 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Exposure Category and Sex at Birth, Reported through 6/30/2017

EXPOSURE CATEGORY**	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						
	No.	% of Total	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 mo.	% 3 mo.	%	%	Median Count
With Exposure	360	100.0%	84.4%	90.6%	23.9%	88.3%	382
Men who have Sex with Men (MSM)	210	58.3%	83.3%	90.5%	22.9%	87.1%	384
Injection Drug Users (IDU)	23	6.4%	87.0%	87.0%	***	87.0%	322
Men who have Sex with Men and Inject Drugs (MSM/IDU)	5	1.4%	100.0%	100.0%	***	100.0%	379
Heterosexual Exposure (HET)	122	33.9%	85.2%	91.0%	23.8%	90.2%	371
Other Exposures	0	0.0%	--	--	--	--	--
No Reported Exposure	155		77.4%	82.6%	30.3%	78.7%	307
TOTAL	515		82.3%	88.2%	25.8%	85.4%	368

MALE EXPOSURE CATEGORY**	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						
	No.	% of Total	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 mo.	% 3 mo.	%	%	Median Count
With Exposure	277	100.0%	84.5%	90.6%	23.5%	88.4%	374
Men who have Sex with Men (MSM)	210	75.8%	83.3%	90.5%	22.9%	87.1%	384
Injection Drug Users (IDU)	15	5.4%	86.7%	86.7%	***	93.3%	327
Men who have Sex with Men and Inject Drugs (MSM/IDU)	5	1.8%	100.0%	100.0%	***	100.0%	379
Heterosexual Exposure (HET)	47	17.0%	87.2%	91.5%	23.4%	91.5%	328
Other Exposures	0	0.0%	--	--	--	--	--
No Reported Exposure	111		75.7%	82.0%	28.8%	79.3%	313
TOTAL	388		82.0%	88.1%	25.0%	85.8%	368

FEMALE EXPOSURE CATEGORY**	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						
	No.	% of Total	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 mo.	% 3 mo.	%	%	Median Count
With Exposure	83	100.0%	84.3%	90.4%	25.3%	88.0%	433
Injection Drug Users (IDU)	8	9.6%	87.5%	87.5%	***	75.0%	314
Heterosexual Exposure (HET)	75	90.4%	84.0%	90.7%	***	89.3%	439
Other Exposure	0	0.0%	--	--	--	--	--
No Reported Exposure	44		81.8%	84.1%	34.1%	77.3%	261
TOTAL	127		83.5%	88.2%	28.3%	84.3%	373

** 2016 reported HIV exposure data are preliminary.

*** Data withheld due to low population and/or case counts

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 18 – Adult/Adolescent Living HIV Cases Alive on 12/31/2016, by Exposure Category and Sex at Birth, Reported through 6/30/2017

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES		
	No.	% of Total with Exposure	% Living with AIDS
With Exposure	14,345	100.0%	59.8%
Men who have Sex with Men (MSM)	5,124	35.7%	49.3%
Injection Drug Users (IDU)	3,750	26.1%	74.3%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	656	4.6%	69.7%
Heterosexual Exposure (HET)	4,769	33.2%	58.1%
Other Exposures	46	0.3%	73.9%
No Reported Exposure*	1,926		37.8%
TOTAL	16,271		57.2%

MALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES		
	No.	% of Total with Exposure	% Living with AIDS
With Exposure	9,481	100.0%	58.1%
Men who have Sex with Men (MSM)	5,124	54.0%	49.3%
Injection Drug Users (IDU)	2,155	22.7%	74.3%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	656	6.9%	69.7%
Heterosexual Exposure (HET)	1,523	16.1%	59.6%
Other Exposures	23	0.2%	78.3%
No Reported Exposure	1,152		37.5%
TOTAL	10,633		55.9%

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES		
	No.	% of Total with Exposure	% Living with AIDS
With Exposure	4,864	100.0%	62.9%
Injection Drug Users (IDU)	1,595	32.8%	74.2%
Heterosexual Exposure (HET)	3,246	66.7%	57.3%
Other Exposures	23	0.5%	69.6%
No Reported Exposure*	774		38.2%
TOTAL	5,638		59.5%

* Includes 65 HIV cases with Presumed Female Heterosexual exposure.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Living with AIDS: The percent of reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 19 – Adult/Adolescent Total Living HIV Cases by Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2016 and Reported through 6/30/2017

Exposure Category	Adult/Adolescent Total Living HIV Cases					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	653	100.0%	10,681	100.0%	1,995	100.0%
Men who have Sex with Men (MSM)	309	47.3%	3,197	29.9%	1,202	60.3%
Injection Drug Users (IDU)	84	12.9%	3,088	28.9%	336	16.8%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	28	4.3%	476	4.5%	92	4.6%
Heterosexual Exposure (HET)	232	35.5%	3,892	36.4%	350	17.5%
Other Exposures	0	0.0%	28	0.3%	15	0.8%
No Reported Exposure*	62		1,521		250	
TOTAL	715		12,202		2,245	

Male Exposure Category	Adult/Adolescent Total Living HIV Cases					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	490	100.0%	6,701	100.0%	1,603	100.0%
Men who have Sex with Men (MSM)	309	63.1%	3,197	47.7%	1,202	75.0%
Injection Drug Users (IDU)	51	10.4%	1,827	27.3%	164	10.2%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	28	5.7%	476	7.1%	92	5.7%
Heterosexual Exposure (HET)	102	20.8%	1,191	17.8%	134	8.4%
Other Exposures	0	0.0%	10	0.1%	11	0.7%
No Reported Exposure	44		859		190	
TOTAL	534		7,560		1,793	

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	163	100.0%	3,980	100.0%	392	100.0%
Injection Drug Users (IDU)	33	20.2%	1,261	31.7%	172	43.9%
Heterosexual Exposure (HET)	130	79.8%	2,701	67.9%	216	55.1%
Other Exposures	0	0.0%	18	0.5%	4	1.0%
No Reported Exposure*	18		662		60	
TOTAL	181		4,642		452	

* Includes 1 Hispanic case, 63 non-Hispanic black cases, and 1 non-Hispanic white case with Presumed Female Heterosexual exposure

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 20 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Exposure Category, Reported through 6/30/2017

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
With Exposure	14,345	9,801	68.3%	554	12.3%	14.3%	16.8%	56.6%
Men who have Sex with Men (MSM)	5,124	3,302	64.4%	581	9.4%	12.3%	17.6%	60.7%
Injection Drug Users (IDU)	3,750	2,714	72.4%	504	16.7%	16.1%	16.9%	50.3%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	656	450	68.6%	522	13.8%	16.9%	16.9%	52.4%
Heterosexual Exposure (HET)	4,769	3,300	69.2%	573	11.5%	14.3%	15.8%	58.4%
Other Exposures	46	35	76.1%	433	14.3%	20.0%	28.6%	37.1%
No Reported Exposure*	1,926	1,028	53.4%	551	13.0%	12.9%	18.3%	55.7%
TOTAL	16,271	10,829	66.6%	554	12.4%	14.2%	16.9%	56.5%

* Includes 65 cases with Presumed Female Heterosexual exposure

Table 21 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Exposure Category, Reported through 6/30/2017

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Count
With Exposure	14,345	8,966	62.5%	76.6%	9,866
Men who have Sex with Men (MSM)	5,124	3,125	61.0%	77.9%	11,352
Injection Drug Users (IDU)	3,750	2,339	62.4%	71.7%	10,000
Men who have Sex with Men and Inject Drugs (MSM/IDU)	656	407	62.0%	77.4%	14,485
Heterosexual Exposure (HET)	4,769	3,065	64.3%	79.0%	8,318
Other Exposures	46	30	65.2%	66.7%	33,122
No Reported Exposure*	1,926	1,013	52.6%	74.4%	11,540
TOTAL	16,271	9,979	61.3%	76.4%	10,021

* Includes 65 cases with Presumed Female Heterosexual exposure

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

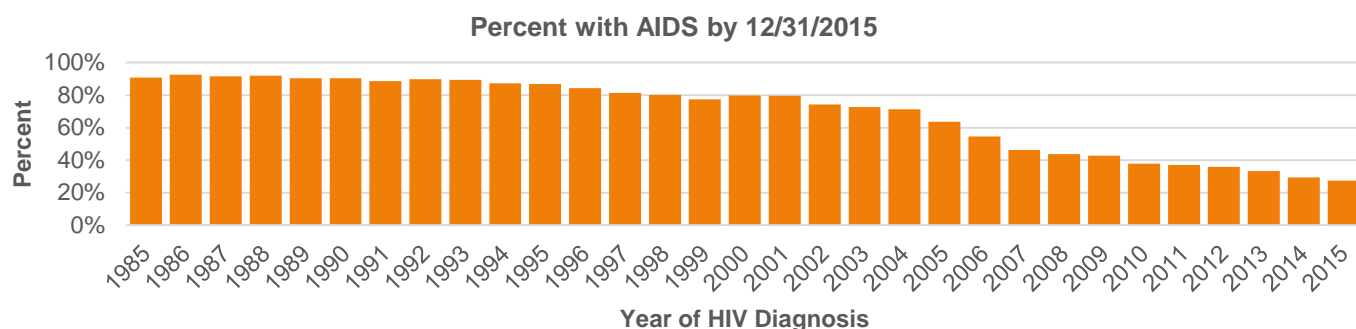
Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section IX – Disease Progression and Mortality

Figure 11 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2015, Reported through 6/30/2017

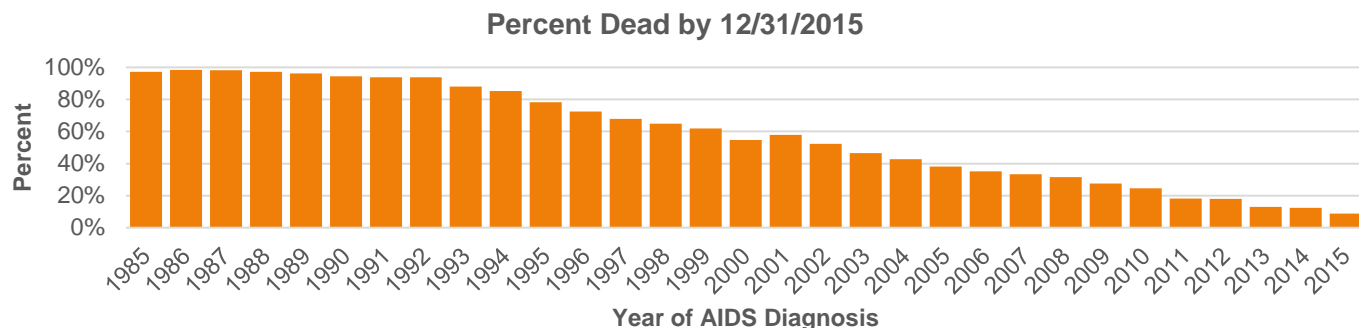
Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by 12/31/2015 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by 12/31/2016 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by 12/31/2016, the Average Years from HIV Diagnosis to AIDS Diagnosis for Cases with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported Adult/Adolescent HIV Diagnoses with a Reported AIDS Diagnosis at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2015, as Reported by Name through 6/30/2017



YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis			
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	225	216	96.0%	7.0	33.8%	33.8%	37.3%	68.0%
1985	440	400	90.9%	6.5	26.1%	27.7%	35.5%	75.0%
1986	585	541	92.5%	5.6	33.0%	34.0%	46.3%	79.1%
1987	762	698	91.6%	4.7	33.1%	36.4%	53.7%	82.2%
1988	1,128	1,038	92.0%	3.9	37.9%	41.8%	63.6%	85.6%
1989	1,435	1,299	90.5%	3.6	38.0%	43.5%	67.2%	83.2%
1990	1,500	1,356	90.4%	3.0	44.1%	50.9%	73.2%	84.8%
1991	1,710	1,516	88.7%	2.7	46.1%	55.6%	73.2%	83.2%
1992	1,676	1,507	89.9%	2.6	50.6%	58.8%	75.1%	83.9%
1993	1,527	1,367	89.5%	2.2	53.9%	62.0%	76.4%	85.3%
1994	1,385	1,208	87.2%	2.3	53.4%	61.2%	74.0%	82.1%
1995	1,351	1,173	86.8%	2.3	56.7%	62.3%	72.2%	82.2%
1996	1,254	1,058	84.4%	1.9	59.3%	64.2%	71.5%	80.4%
1997	1,281	1,043	81.4%	2.1	55.2%	60.1%	68.6%	77.1%
1998	1,275	1,022	80.2%	2.0	55.3%	59.1%	67.7%	76.0%
1999	1,179	914	77.5%	1.7	55.9%	60.1%	68.1%	74.6%
2000	1,106	881	79.7%	1.7	55.9%	60.1%	69.5%	76.9%
2001	1,207	960	79.5%	1.6	58.7%	62.6%	71.3%	76.6%
2002	1,427	1,059	74.2%	1.8	53.8%	57.3%	64.4%	71.1%
2003	1,225	890	72.7%	1.5	54.4%	58.0%	63.8%	70.3%
2004	1,220	870	71.3%	1.6	52.2%	56.1%	62.5%	69.1%
2005	1,269	808	63.7%	1.4	46.8%	49.7%	56.3%	63.0%
2006	1,325	724	54.6%	1.6	38.3%	40.6%	47.8%	54.3%
2007	1,205	558	46.3%	1.8	29.0%	32.1%	39.8%	--
2008	1,152	505	43.8%	1.6	28.3%	31.7%	39.2%	--
2009	925	396	42.8%	1.6	27.9%	30.7%	38.6%	--
2010	941	357	37.9%	1.3	25.8%	28.6%	35.7%	--
2011	721	267	37.0%	0.9	27.3%	31.2%	35.8%	--
2012	682	244	35.8%	0.8	28.2%	30.5%	--	--
2013	622	208	33.4%	0.5	29.1%	30.5%	--	--
2014	586	172	29.4%	0.4	25.4%	28.3%	--	--
2015	545	150	27.5%	0.2	25.5%	--	--	--
TOTAL	34,871	25,405	72.9%	2.4	44.7%	49.3%	60.0%	69.1%

Figure 12 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2015, Reported through 6/30/2017

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by 12/31/15 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by 12/31/2016 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by 12/31/2016, the Average Years from AIDS Diagnosis to Death for Cases that have Died, and the Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2015, as Reported by Name through 6/30/2017



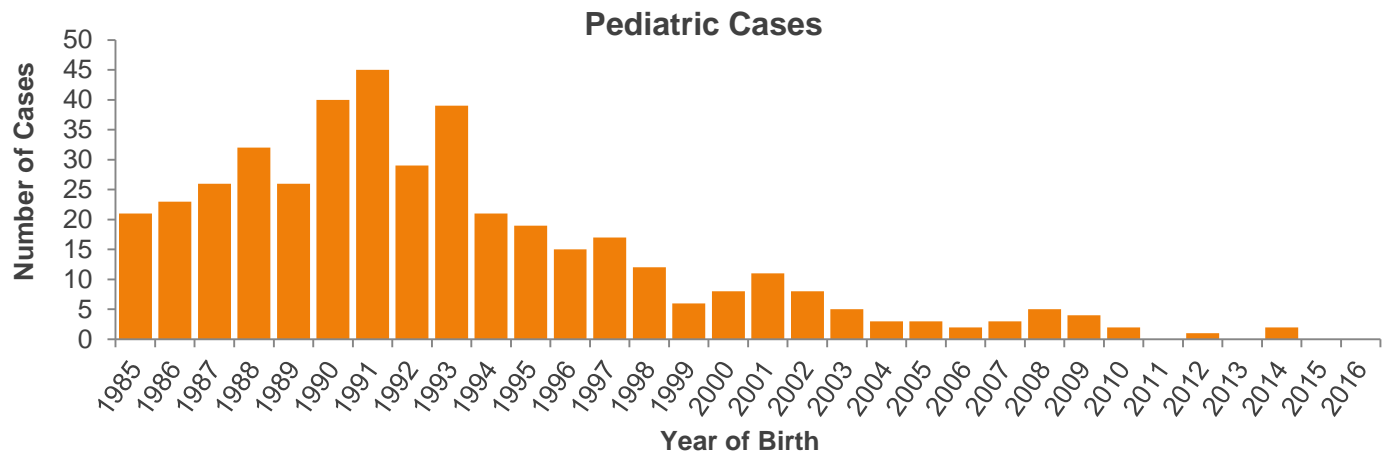
YEAR OF AIDS DIAGNOSIS	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES							
	Reported AIDS Deaths				Percent Alive by Years After AIDS Diagnosis			
	No.	No.	% Dead	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	77	73	94.8%	2.5	51.9%	32.5%	15.6%	13.0%
1985	106	103	97.2%	1.9	42.5%	21.7%	8.5%	6.6%
1986	174	171	98.3%	2.6	54.0%	35.6%	14.9%	8.6%
1987	265	260	98.1%	2.2	61.5%	33.2%	11.3%	5.3%
1988	436	424	97.2%	2.5	59.6%	39.4%	14.2%	6.9%
1989	559	537	96.1%	2.5	60.8%	39.4%	15.6%	8.1%
1990	786	742	94.4%	2.9	65.6%	46.3%	20.1%	11.7%
1991	977	915	93.7%	2.8	67.7%	46.2%	18.1%	12.2%
1992	1,351	1,267	93.8%	3.1	70.2%	48.6%	19.9%	13.8%
1993	1,544	1,358	88.0%	3.7	77.5%	55.2%	32.4%	20.9%
1994	1,383	1,178	85.2%	3.9	77.2%	58.4%	37.9%	23.9%
1995	1,395	1,090	78.1%	4.8	78.2%	65.9%	48.9%	35.0%
1996	1,300	941	72.4%	5.2	81.8%	74.6%	57.2%	41.4%
1997	1,130	767	67.9%	5.3	85.1%	77.2%	60.7%	44.5%
1998	1,033	669	64.8%	5.4	87.0%	80.2%	64.0%	47.1%
1999	1,009	625	61.9%	5.2	87.0%	79.8%	64.0%	48.6%
2000	892	487	54.6%	4.6	85.9%	80.3%	65.1%	52.9%
2001	1,012	586	57.9%	4.5	85.7%	77.0%	62.5%	50.3%
2002	1,067	557	52.2%	4.9	88.1%	82.3%	69.8%	56.7%
2003	951	442	46.5%	3.6	83.7%	78.1%	67.0%	57.8%
2004	962	410	42.6%	3.9	87.3%	82.7%	71.6%	61.3%
2005	895	342	38.2%	3.6	88.4%	83.5%	74.1%	64.4%
2006	816	287	35.2%	3.3	88.4%	83.7%	74.6%	65.3%
2007	608	203	33.4%	3.1	88.3%	84.9%	76.2%	--
2008	600	189	31.5%	2.7	88.8%	83.8%	75.0%	--
2009	531	146	27.5%	2.7	91.0%	86.8%	77.8%	--
2010	552	135	24.5%	2.3	89.9%	87.1%	79.9%	--
2011	464	84	18.1%	2.1	94.0%	90.9%	83.0%	--
2012	494	89	18.0%	1.5	90.7%	88.7%	--	--
2013	453	59	13.0%	1.3	94.0%	90.1%	--	--
2014	325	40	12.3%	0.7	91.4%	88.6%	--	--
2015*	348	31	8.9%	0.4	92.2%	--	--	--
TOTAL	24,495	15,207	62.1%	3.8	81.3%	70.6%	54.6%	44.5%

*2015 AIDS deaths are preliminary.

Section X – Pediatric Cases

Figure 13 – Trends in Pediatric HIV Cases, 1985-2016, Reported through 6/30/2017

Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2016, as Reported by Name through 6/30/2017



YEAR	PEDIATRIC REPORTED HIV DIAGNOSES			PEDIATRIC TOTAL LIVING HIV CASES	
	No. by Year of Birth	No. by Year of HIV Diagnosis	No. by Year of AIDS Diagnosis	No. by Year of Death	No. Alive on 12/31 of Each Year
<1985	26	2	1	0	--
1985	21	8	5	1	10
1986	23	7	6	4	13
1987	26	16	10	5	24
1988	32	22	14	4	43
1989	26	28	19	5	66
1990	40	37	16	5	99
1991	45	37	26	8	127
1992	29	45	28	9	163
1993	39	45	25	12	196
1994	21	29	20	12	212
1995	19	20	14	12	220
1996	15	22	11	14	229
1997	17	10	7	6	233
1998	12	16	9	3	246
1999	6	15	8	5	255
2000	8	8	2	0	263
2001	11	9	8	3	268
2002	8	8	6	4	272
2003	5	2	1	2	272
2004	3	5	2	3	274
2005	3	1	1	0	275
2006	2	6	3	2	280
2007	3	33	5	4	309
2008	5	8	7	3	314
2009	4	6	3	2	318
2010	2	1	7	4	315
2011	0	2	4	4	314
2012	1	2	3	3	313
2013	0	1	10	1	314
2014	2	2	5	0	316
2015	0	0	2	3	314
2016	0	1	6	1	311
TOTAL	454	454	294	144	--

Table 22 – Pediatric HIV Total Living HIV Cases, Diagnosed in Maryland, Alive on 12/31/2016, by Jurisdiction, Reported through 6/30/2017

JURISDICTION OF RESIDENCE AT DIAGNOSIS	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Anne Arundel	21	6.8%
Baltimore City	217	69.8%
Baltimore	49	15.8%
Carroll	3	1.0%
Harford	13	4.2%
Howard	8	2.6%
Queen Anne's	0	0.0%
TOTAL	311	100.0%

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 23 – Pediatric Total Living HIV Cases, Diagnosed in Maryland, by Sex at Birth and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

SEX AT BIRTH	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Male	137	44.1%
Female	174	55.9%
TOTAL	311	100.0%

RACE/ETHNICITY	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Hispanic	6	1.9%
Non-Hispanic	305	98.1%
American Indian/ Alaska Native, only	0	0.0%
Asian, only	1	0.3%
Black, only	271	87.1%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	20	6.4%
Multiracial/Other	13	4.2%
TOTAL	311	100.0%

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Glossary of Terms

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Age on [date]: Age group of living cases on the specified date.

AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis that have died due to any cause.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Corrections: Residence in a state or federal prison. Does not include local jails and detention centers.

Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Living HIV Cases with AIDS: Reported HIV diagnoses with an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Living HIV Cases without AIDS: Reported HIV diagnoses without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Mean Years from HIV Diagnosis: Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Percent with AIDS: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis by 12/31/2016.

Percent with AIDS by Years after HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

Population: Population estimate for 7/1/2016.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Rate: Number of HIV cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 test result performed in the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.